SABIC WM SABIC WM

## LNP\* Stat-kon\* Compound KS302

Asia Pacific: COMMERCIAL

Also known as: KS

**Product Reorder Name: KS302** 

LNP\* Stat-kon\* KS302 is a compound based on Acetal Copolymer resin containing Stainless Steel.

## **Property**

NECHANICAL   Value   Unit   Standard	TYPICAL PROPERTIES (1)			
Tensile Stress, break  48 MPa ASTM D 638 Tensile Strain, yield  9 % ASTM D 638 Tensile Strain, preak  38.7 % ASTM D 638 Tensile Strain, preak  38.7 % ASTM D 638 Tensile Modulus, 50 mm/min  2750 MPa ASTM D 638 Tensile Modulus, 50 mm/min  2750 MPa ASTM D 638 Tensile Modulus  2060 MPa ASTM D 790 Tensile Stress, yield  52 MPa ISO 527 Tensile Stress, break  52 MPa ISO 527 Tensile Stress, break  52 MPa ISO 527 Tensile Stress, break  53 MPa ISO 527 Tensile Strain, yield  8.4 % ISO 527 Tensile Strain, preak  12.9 % ISO 527 Tensile Strain, break  12.9 % ISO 527 Tensile Modulus, 1 mm/min  3030 MPa ISO 527 Tensile Modulus, 1 mm/min  3030 MPa ISO 527 Tensile Modulus, 1 mm/min  3030 MPa ISO 178 Tensile Modulus, 1 mm/min  3030 MPa ISO 178 Tensile Modulus, 1 mm/min  100 178 Tensile Modulus  4300 MPa ISO 178 Tensile Modulus  4300 MPa ISO 178 Tensile Modulus  101 Jiso 178 Tensile Modulus  101 Jiso 178 Tensile Modulus  102 Impact, unnotched, 23°C  42 J/m ASTM D 4812 Zod Impact, unnotched, 23°C  42 J/m ASTM D 256 Instrumented Impact Energy @ peak, 23°C  5 J ASTM D 3763 Multiaxial Impact Izod Impact, notched 80°10°4 +23°C  49 KJ/m² ISO 180/1U Izod Impact, notched 80°10°4 +23°C  5 KJ/m² ISO 180/1U Izod Impact, notched 80°10°4 +23°C  5 KJ/m² ISO 180/1U Izod Impact, notched 80°10°4 +23°C  5 KJ/m² ISO 180/1U Izod Impact, notched 80°10°4 +23°C  5 KJ/m² ISO 180/1U IZOD Impact, notched 80°10°4 +23°C  5 KJ/m² ISO 180/1U IX Standard  THERMAL  HOT, 0.45 MPa, 3.2 mm, unannealed  152 °C ASTM D 648 HDT, 1.82 MPa, 3.2 mm, unannealed  152 °C ASTM D 648 CTE, -40°C to 40°C, flow  1.18E-04 1/°C ASTM E 831 CTE, -40°C to 40°C, flow  1.18E-04 1/°C ISO 11359-2 CTE, -40°C to 40°C, flow  1.08E-04 1/°C ISO 11359-2 CTE, -40°C to 40°C, flow  1.08E-04 1/°C ASTM E 831 CTE, -40°C to 40°C, flow  1.08E-04 1/°C ISO 11359-2 CTE, -40°C to 40°C, flow  1.08E-04 1/°C ASTM E 831 CTE, -40°C to 40°C, flow  1.08E-04 1/°C ASTM E 831 CTE, -40°C to 40°C, flow  1.08E-04 1/°C ASTM E 831 CTE, -40°C to 40°C, flow  1.08E-04 1/°C ASTM E 831 CTE, -40°C to 40°C, flow  1.08E-04 1/°C	MECHANICAL	Value	Unit	Standard
Tensile Strain, yield 9 % ASTM D 638 Tensile Strain, break 33.7 % ASTM D 638 Tensile Strain, break 33.7 % ASTM D 638 Tensile Strain, break 33.7 % ASTM D 638 Flexural Modulus, 50 mm/min 2750 MPa ASTM D 638 Flexural Modulus 2060 MPa ASTM D 790 Tensile Stress, yield 52 MPa ISO 527 Tensile Stress, yield 52 MPa ISO 527 Tensile Stress, break 52 MPa ISO 527 Tensile Strain, break 12.9 % ISO 527 Tensile Modulus, 1 mm/min 3030 MPa ISO 527 Tensile Strain, break 1 Jum 300 MPa ISO 527 Tensile Strain, break 1 Jum 300 MPa ISO 527 Tensile Strain, break 1 Jum 300 MPa ISO 527 Tensile Strain, break 1 Jum 300 MPa ISO 527 Tensile Strain, break 1 Jum 300 MPa ISO 527 Tensile Strain, break 1 Jum 300 MPa ISO 527 Tensile Strain, break 1 Jum 300 MPa ISO 527 Tensile Strain, break 1 Jum 300 MPa ISO 527 Tensile Strain, break 1 Jum 300 MPa ISO 527 Tensile Strain, break 1 Jum 300 MPa ISO 527 Tensile Strain, break 1 Jum 300 MPa ISO 527 Tensile Strain, break 1 Jum 300 MPa ISO 527 Tensile Strain, break 1 Jum 300 MPa ISO 527 Tensile Strain, preak 1 Jum 300 MPa ISO 527 Tensile Strain, preak 1 Jum 300 MPa ISO 527 Tensile Strain, preak 1 Jum 300 MPa ISO 527 Tensile Strain, preak 1 Jum 300 MPa ISO 527 Tensile Strain, preak 1 Jum 300 MPa ISO 527 Tensile Strain, preak 1 Jum 300 MPa ISO 527 Tensile Strain, preak 1 Jum 300 MPa ISO 527 Tensile Strain, preak 1 Jum 300 MPa ISO 527 Tensile Strain, preak 1 Jum 300 MPa ISO 527 Tensile Strain, preak 1 Jum 300 MPa ISO 527 Tensile Strain break 1 Jum 300 MPa ISO 527 Tensile Strain break 1 Jum 300 MPa ISO 527 Tensile Strain b	Tensile Stress, yield	51	MPa	ASTM D 638
Tensile Strain, break Tensile Modulus, 50 mm/min Tensile Modulus, 50 mm/min Tensile Modulus, 50 mm/min Tensile Stress, break Tensile Stress, yieid Tensile Stress, yieid Tensile Stress, yieid Tensile Stress, yieid Tensile Stress, break Tensile Stress, break Tensile Strain, yieid Tensile Strain, break Tensile Strain, break Tensile Modulus, 1 mm/min Tensile Strain, break Tensile Strain, break Tensile Strain, break Tensile Strain, yieid Tensile Strain Tensile Strain, yieid Tensile Strain, yieit Tensile Strain Tensile Strain,	Tensile Stress, break	48	MPa	ASTM D 638
Tensile Modulus, 50 mm/min	Tensile Strain, yield	9	%	ASTM D 638
Flexural Modulus	Tensile Strain, break	38.7	%	ASTM D 638
Tensile Stress, yield 52 MPa ISO 527 Tensile Stress, break 52 MPa ISO 527 Tensile Stress, break 52 MPa ISO 527 Tensile Strain, yield 8.4 % ISO 527 Tensile Strain, break 12.9 % ISO 527 Tensile Strain, break 12.9 % ISO 527 Tensile Modulus, 1 mm/min 3030 MPa ISO 527 Tensile Modulus 4300 MPa ISO 178 Telexural Stress 65 MPa ISO 178 Telexural Modulus 4300 MPa ISO 180 Telexural Modulus 4300 MPa Isla Modulus 430 Telexural Modulus 4300 MPa Isla Modulus 430 Telexural Modulus 430 Telexural Modulus 4300 MPa Isla Modulus 4300 Telexural Modulus 430 Telexural Modulus 4300 MPa Isla Modulus 4300 Telexural Modulus 430 Telexural Modulus 4300 Telexural Modulus 430 Telexural Modulus 430 Telexural Modulus 430 Telexural Modulus 430 Telexural Modulus 4300 Telexural Modulus 430 Telexu	Tensile Modulus, 50 mm/min	2750	MPa	ASTM D 638
Tensile Stress, break  52 MPa ISO 527 Tensile Strain, yield  8.4 % ISO 527 Tensile Strain, preak  12.9 % ISO 527 Tensile Modulus, 1 mm/min  3030 MPa ISO 527 Flexural Stress  65 MPa ISO 178  ### ISO 178 ### ISO 180 ### ISO 178 ### ISO 180 ### ISO 180 ### ISO 178 ### ISO 180 ### ISO 180 ### ISO 178 ### ISO 180 ### ISO 180 ### ISO 178 ### ISO 178 ### ISO 180 ### ISO 178 ### ISO 180 ### ISO 178 ### ISO 178 ### ISO 180 ### ISO 178 ### ISO	Flexural Modulus	2060	MPa	ASTM D 790
Tensile Strain, yield         8.4         %         ISO 527           Tensile Strain, break         12.9         %         ISO 527           Tensile Modulus, 1 mm/min         3030         MPa         ISO 527           Flexural Stress         65         MPa         ISO 178           Flexural Modulus         4300         MPa         ISO 178           IMPACT         Value         Unit         Standard           Izod Impact, unnotched, 23°C         881         J/m         ASTM D 4812           Izod Impact, notched, 23°C         42         J/m         ASTM D 256           Instrumented Impact Energy @ peak, 23°C         5         J         ASTM D 3763           Multiaxial Impact         1         J         ISO 6603           Izod Impact, unnotched 80°10°4 + 23°C         49         kJ/m²         ISO 180/10           Izod Impact, unnotched 80°10°4 + 23°C         5         J         ASTM D 56603           Izod Impact, unnotched 80°10°4 + 23°C         5         J         KJ/m²         ISO 180/10           Izod Impact, unnotched 80°10°4 + 23°C         5         J         KJ/m²         ISO 180/10           Izod Impact, unnotched 80°10°4 + 23°C         5         KJ/m²         ISO 180/10           Izod	Tensile Stress, yield	52	MPa	ISO 527
Tensile Strain, break	Tensile Stress, break	52	MPa	ISO 527
Tensile Modulus, 1 mm/min         3030         MPa         ISO 527           Flexural Stress         65         MPa         ISO 178           Flexural Modulus         4300         MPa         ISO 178           Impact         Value         Unit         Standard           Izod Impact, unnotched, 23°C         881         J/m         ASTM D 4812           Izod Impact, notched, 23°C         42         J/m         ASTM D 256           Instrumented Impact Energy @ peak, 23°C         5         J         ASTM D 3763           Multiaxial Impact         1         J         ISO 6603           Izod Impact, unnotched 80*10*4 +23°C         49         kJ/m²         ISO 180/IU           Izod Impact, notched 80*10*4 +23°C         5         kJ/m²         ISO 180/IU           Izod Impact, notched 80*10*4 +23°C         49         kJ/m²         ISO 180/IU           Izod Impact, notched 80*10*4 +23°C         5         kJ/m²         ISO 180/IU           Izod Impact, unnotched 80*10*4 +23°C         5         kJ/m²         ISO 180/IU           Izod Impact, unnotched 80*10*4 +23°C         5         kJ/m²         ISO 180/IU           Izod Impact, unnotched 80*10*4 +23°C         5         C         ASTM D 648           Intensity	Tensile Strain, yield	8.4	%	ISO 527
Flexural Stress         65         MPa         ISO 178           Flexural Modulus         4300         MPa         ISO 178           IMPACT         Value         Unit         Standard           Izod Impact, unnotched, 23°C         881         J/m         ASTM D 4812           Izod Impact, notched, 23°C         42         J/m         ASTM D 256           Instrumented Impact Energy @ peak, 23°C         5         J         ASTM D 3763           Multiaxial Impact         1         J         ISO 6603           Izod Impact, unnotched 80°10°4 +23°C         49         kJ/m²         ISO 180/1U           Izod Impact, notched 80°10°4 +23°C         5         kJ/m²         ISO 180/1U           Izod Impact, unnotched 80°10°4 +23°C         5         kJ/m²         ISO 180/1U           Izod Impact, unnotched 80°10°4 +23°C         5         kJ/m²         ISO 180/1U           Izod Impact, unnotched 80°10°4 +23°C         49         kJ/m²         ISO 180/1U           Izod Impact, unnotched 80°10°4 +23°C         5         kJ/m²         ISO 180/1U           Izod Impact, unnotched 80°10°4 +23°C         5         kJ/m²         ISO 180/1U           Izod Impact, unnotched 80°10°4 +23°C         5         kJ/m²         ISO 180/1U           <	Tensile Strain, break	12.9	%	ISO 527
Flexural Modulus	Tensile Modulus, 1 mm/min	3030	MPa	ISO 527
IMPACT   Izod Impact, unnotched, 23°C   881   J/m   ASTM D 4812     Izod Impact, notched, 23°C   42   J/m   ASTM D 256     Instrumented Impact Energy @ peak, 23°C   5   J   ASTM D 3763     Multiaxial Impact   1   J   ISO 6603     Izod Impact, unnotched 80*10*4 +23°C   49   kJ/m²   ISO 180/1U     Izod Impact, unnotched 80*10*4 +23°C   49   kJ/m²   ISO 180/1U     Izod Impact, notched 80*10*4 +23°C   5   kJ/m²   ISO 180/1A     THERMAL   Value   Unit   Standard     HDT, 0.45 MPa, 3.2 mm, unannealed   152   °C   ASTM D 648     HDT, 1.82 MPa, 3.2mm, unannealed   92   °C   ASTM D 648     HDT, 1.82 MPa, 3.2mm, unannealed   92   °C   ASTM E 831     CTE, -40°C to 40°C, flow   1.19E-04   1/°C   ASTM E 831     CTE, -40°C to 40°C, flow   1.18E-04   1/°C   ASTM E 831     CTE, -40°C to 40°C, flow   1.18E-04   1/°C   ISO 11359-2     CTE, -40°C to 40°C, xflow   1.08E-04   1/°C   ISO 11359-2     HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm   150   °C   ISO 75/Bf     HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm   90   °C   ISO 75/Bf     HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm   90   °C   ISO 75/Bf     HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm   90   °C   ISO 75/Bf     HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm   90   °C   ISO 75/Bf     HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm   90   °C   ISO 75/Bf     HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm   90   °C   ISO 75/Bf     HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm   90   °C   ISO 75/Bf     HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm   90   °C   ISO 75/Bf     HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm   90   °C   ISO 75/Bf     HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm   90   °C   ISO 75/Bf     HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm   90   °C   ISO 75/Bf     HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm   90   °C   ISO 75/Bf     HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm   90   °C   ISO 75/Bf     HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm   90   °C   ISO 75/Bf     HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm   90   °C   ISO 75/Bf     HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm   90   °C   ISO 75/Bf     HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm   90   °	Flexural Stress	65	MPa	ISO 178
Izod Impact, unnotched, 23°C   881   J/m   ASTM D 4812   Izod Impact, notched, 23°C   42   J/m   ASTM D 256   Instrumented Impact Energy @ peak, 23°C   5   J   ASTM D 3763   Multiaxial Impact   1   J   ISO 6603   Izod Impact, unnotched 80*10*4 +23°C   49   kJ/m²   ISO 180/1U   Izod Impact, notched 80*10*4 +23°C   5   kJ/m²   ISO 180/1U   Izod Impact, notched 80*10*4 +23°C   5   kJ/m²   ISO 180/1A   THERMAL   Value   Unit   Standard   HDT, 0.45 MPa, 3.2 mm, unannealed   152   °C   ASTM D 648   HDT, 1.82 MPa, 3.2mm, unannealed   92   °C   ASTM D 648   CTE, -40°C to 40°C, flow   1.19E-04   1/°C   ASTM E 831   CTE, -40°C to 40°C, flow   1.08E-04   1/°C   ASTM E 831   CTE, -40°C to 40°C, flow   1.18E-04   1/°C   ISO 11359-2   CTE, -40°C to 40°C, flow   1.08E-04   1/°C   ISO 11359-2   CTE, -40°C to 40°C, xflow   1.08E-04   1/°C   ISO 11359-2   TTE, xflow   1.08E-04   1/°C   ISO 11359-2   TTE, xflo	Flexural Modulus	4300	MPa	ISO 178
Izod Impact, notched, 23°C	IMPACT	Value	Unit	Standard
Instrumented Impact Energy @ peak, 23°C         5         J         ASTM D 3763           Multiaxial Impact         1         J         ISO 6603           Izod Impact, unnotched 80*10*4 +23°C         49         kJ/m²         ISO 180/1U           Izod Impact, notched 80*10*4 +23°C         5         kJ/m²         ISO 180/1A           THERMAL         Value         Unit         Standard           HDT, 0.45 MPa, 3.2 mm, unannealed         152         °C         ASTM D 648           HDT, 1.82 MPa, 3.2mm, unannealed         92         °C         ASTM D 648           CTE, -40°C to 40°C, flow         1.19E-04         1/°C         ASTM E 831           CTE, -40°C to 40°C, xflow         1.08E-04         1/°C         ASTM E 831           CTE, -40°C to 40°C, flow         1.18E-04         1/°C         ISO 11359-2           CTE, -40°C to 40°C, xflow         1.08E-04         1/°C         ISO 11359-2           CTE, -40°C to 40°C, xflow         1.08E-04         1/°C         ISO 11359-2           HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm         90         °C         ISO 75/Bf           HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm         90         °C         ISO 75/Af           PHYSICAL         Value         Unit         Standard	Izod Impact, unnotched, 23°C	881	J/m	ASTM D 4812
Multiaxial Impact         1         J         ISO 6603           Izod Impact, unnotched 80*10*4 +23°C         49         kJ/m²         ISO 180/1U           Izod Impact, notched 80*10*4 +23°C         5         kJ/m²         ISO 180/1A           THERMAL         Value         Unit         Standard           HDT, 0.45 MPa, 3.2 mm, unannealed         152         °C         ASTM D 648           HDT, 1.82 MPa, 3.2mm, unannealed         92         °C         ASTM D 648           CTE, -40°C to 40°C, flow         1.19E-04         1/°C         ASTM E 831           CTE, -40°C to 40°C, xflow         1.08E-04         1/°C         ASTM E 831           CTE, -40°C to 40°C, flow         1.18E-04         1/°C         ISO 11359-2           CTE, -40°C to 40°C, xflow         1.08E-04         1/°C         ISO 11359-2           CTE, -40°C to 40°C, xflow         1.08E-04         1/°C         ISO 11359-2           CTE, -40°C to 40°C, xflow         1.08E-04         1/°C         ISO 11359-2           HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm         90         °C         ISO 75/Bf           HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm         90         °C         ISO 75/Af           PHYSICAL         Value         Unit         Standard	Izod Impact, notched, 23°C	42	J/m	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	Instrumented Impact Energy @ peak, 23°C	5	J	ASTM D 3763
Izod Impact, notched 80*10*4 +23°C	Multiaxial Impact	1	J	ISO 6603
THERMAL         Value         Unit         Standard           HDT, 0.45 MPa, 3.2 mm, unannealed         152         °C         ASTM D 648           HDT, 1.82 MPa, 3.2mm, unannealed         92         °C         ASTM D 648           CTE, -40°C to 40°C, flow         1.19E-04         1/°C         ASTM E 831           CTE, -40°C to 40°C, xflow         1.08E-04         1/°C         ASTM E 831           CTE, -40°C to 40°C, flow         1.18E-04         1/°C         ISO 11359-2           CTE, -40°C to 40°C, xflow         1.08E-04         1/°C         ISO 11359-2           HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm         150         °C         ISO 75/Bf           HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm         90         °C         ISO 75/Af           PHYSICAL         Value         Unit         Standard           Density         1.5         g/cm³         ASTM D 792           Moisture Absorption, 50% RH, 24 hrs         0.2         %         ASTM D 955           Mold Shrinkage, flow, 24 hrs         2 - 3         %         ASTM D 955           Mold Shrinkage, flow, 24 hrs         2.5         %         ISO 294           Mold Shrinkage, xflow, 24 hrs         2.5         %         ISO 294	Izod Impact, unnotched 80*10*4 +23°C	49	kJ/m²	ISO 180/1U
HDT, 0.45 MPa, 3.2 mm, unannealed       152       °C       ASTM D 648         HDT, 1.82 MPa, 3.2mm, unannealed       92       °C       ASTM D 648         CTE, -40°C to 40°C, flow       1.19E-04       1/°C       ASTM E 831         CTE, -40°C to 40°C, xflow       1.08E-04       1/°C       ASTM E 831         CTE, -40°C to 40°C, flow       1.18E-04       1/°C       ISO 11359-2         CTE, -40°C to 40°C, xflow       1.08E-04       1/°C       ISO 11359-2         HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm       150       °C       ISO 75/Bf         HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm       90       °C       ISO 75/Af         PHYSICAL       Value       Unit       Standard         Density       1.5       g/cm³       ASTM D 792         Moisture Absorption, 50% RH, 24 hrs       0.2       %       ASTM D 570         Mold Shrinkage, flow, 24 hrs       2 - 3       %       ASTM D 955         Mold Shrinkage, xflow, 24 hrs       2.5       %       ISO 294         Mold Shrinkage, xflow, 24 hrs       2.5       %       ISO 294	Izod Impact, notched 80*10*4 +23°C	5	kJ/m²	ISO 180/1A
HDT, 1.82 MPa, 3.2mm, unannealed       92       °C       ASTM D 648         CTE, -40°C to 40°C, flow       1.19E-04       1/°C       ASTM E 831         CTE, -40°C to 40°C, xflow       1.08E-04       1/°C       ASTM E 831         CTE, -40°C to 40°C, flow       1.18E-04       1/°C       ISO 11359-2         CTE, -40°C to 40°C, xflow       1.08E-04       1/°C       ISO 11359-2         HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm       150       °C       ISO 75/Bf         HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm       90       °C       ISO 75/Af         PHYSICAL       Value       Unit       Standard         Density       1.5       g/cm³       ASTM D 792         Moisture Absorption, 50% RH, 24 hrs       0.2       %       ASTM D 570         Mold Shrinkage, flow, 24 hrs       2 - 3       %       ASTM D 955         Mold Shrinkage, xflow, 24 hrs       2 - 3       %       ASTM D 955         Mold Shrinkage, xflow, 24 hrs       2.5       %       ISO 294	THERMAL	Value	Unit	Standard
CTE, -40°C to 40°C, flow       1.19E-04       1/°C       ASTM E 831         CTE, -40°C to 40°C, xflow       1.08E-04       1/°C       ASTM E 831         CTE, -40°C to 40°C, flow       1.18E-04       1/°C       ISO 11359-2         CTE, -40°C to 40°C, xflow       1.08E-04       1/°C       ISO 11359-2         CTE, -40°C to 40°C, xflow       1.08E-04       1/°C       ISO 11359-2         HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm       150       °C       ISO 75/Bf         HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm       90       °C       ISO 75/Af         PHYSICAL       Value       Unit       Standard         Density       1.5       g/cm³       ASTM D 792         Moisture Absorption, 50% RH, 24 hrs       0.2       %       ASTM D 955         Mold Shrinkage, flow, 24 hrs       2 - 3       %       ASTM D 955         Mold Shrinkage, flow, 24 hrs       2.5       %       ASTM D 955         Mold Shrinkage, xflow, 24 hrs       2.5       %       ISO 294	HDT, 0.45 MPa, 3.2 mm, unannealed	152	°C	ASTM D 648
CTE, -40°C to 40°C, xflow       1.08E-04       1/°C       ASTM E 831         CTE, -40°C to 40°C, flow       1.18E-04       1/°C       ISO 11359-2         CTE, -40°C to 40°C, xflow       1.08E-04       1/°C       ISO 11359-2         HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm       150       °C       ISO 75/Bf         HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm       90       °C       ISO 75/Af         PHYSICAL       Value       Unit       Standard         Density       1.5       g/cm³       ASTM D 792         Moisture Absorption, 50% RH, 24 hrs       0.2       %       ASTM D 570         Mold Shrinkage, flow, 24 hrs       2 - 3       %       ASTM D 955         Mold Shrinkage, xflow, 24 hrs       2 - 3       %       ASTM D 955         Mold Shrinkage, flow, 24 hrs       2.5       %       ISO 294         Mold Shrinkage, xflow, 24 hrs       2.5       %       ISO 294	HDT, 1.82 MPa, 3.2mm, unannealed	92	°C	ASTM D 648
CTE, -40°C to 40°C, flow       1.18E-04       1/°C       ISO 11359-2         CTE, -40°C to 40°C, xflow       1.08E-04       1/°C       ISO 11359-2         HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm       150       °C       ISO 75/Bf         HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm       90       °C       ISO 75/Af         PHYSICAL       Value       Unit       Standard         Density       1.5       g/cm³       ASTM D 792         Moisture Absorption, 50% RH, 24 hrs       0.2       %       ASTM D 570         Mold Shrinkage, flow, 24 hrs       2 - 3       %       ASTM D 955         Mold Shrinkage, xflow, 24 hrs       2 - 3       %       ASTM D 955         Mold Shrinkage, flow, 24 hrs       2.5       %       ISO 294         Mold Shrinkage, xflow, 24 hrs       2.5       %       ISO 294	CTE, -40°C to 40°C, flow	1.19E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow       1.08E-04       1/°C       ISO 11359-2         HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm       150       °C       ISO 75/Bf         HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm       90       °C       ISO 75/Af         PHYSICAL       Value       Unit       Standard         Density       1.5       g/cm³       ASTM D 792         Moisture Absorption, 50% RH, 24 hrs       0.2       %       ASTM D 570         Mold Shrinkage, flow, 24 hrs       2 - 3       %       ASTM D 955         Mold Shrinkage, xflow, 24 hrs       2 - 3       %       ASTM D 955         Mold Shrinkage, flow, 24 hrs       2.5       %       ISO 294         Mold Shrinkage, xflow, 24 hrs       2.5       %       ISO 294	CTE, -40°C to 40°C, xflow	1.08E-04	1/°C	ASTM E 831
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm       150       °C       ISO 75/Bf         HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm       90       °C       ISO 75/Af         PHYSICAL       Value       Unit       Standard         Density       1.5       g/cm³       ASTM D 792         Moisture Absorption, 50% RH, 24 hrs       0.2       %       ASTM D 570         Mold Shrinkage, flow, 24 hrs       2 - 3       %       ASTM D 955         Mold Shrinkage, xflow, 24 hrs       2 - 3       %       ASTM D 955         Mold Shrinkage, flow, 24 hrs       2.5       %       ISO 294         Mold Shrinkage, xflow, 24 hrs       2.5       %       ISO 294	CTE, -40°C to 40°C, flow	1.18E-04	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm         90         °C         ISO 75/Af           PHYSICAL         Value         Unit         Standard           Density         1.5         g/cm³         ASTM D 792           Moisture Absorption, 50% RH, 24 hrs         0.2         %         ASTM D 570           Mold Shrinkage, flow, 24 hrs         2 - 3         %         ASTM D 955           Mold Shrinkage, xflow, 24 hrs         2 - 3         %         ASTM D 955           Mold Shrinkage, flow, 24 hrs         2.5         %         ISO 294           Mold Shrinkage, xflow, 24 hrs         2.5         %         ISO 294	CTE, -40°C to 40°C, xflow	1.08E-04	1/°C	ISO 11359-2
PHYSICAL         Value         Unit         Standard           Density         1.5         g/cm³         ASTM D 792           Moisture Absorption, 50% RH, 24 hrs         0.2         %         ASTM D 570           Mold Shrinkage, flow, 24 hrs         2 - 3         %         ASTM D 955           Mold Shrinkage, xflow, 24 hrs         2 - 3         %         ASTM D 955           Mold Shrinkage, flow, 24 hrs         2.5         %         ISO 294           Mold Shrinkage, xflow, 24 hrs         2.5         %         ISO 294	HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	150	°C	ISO 75/Bf
Density         1.5         g/cm³         ASTM D 792           Moisture Absorption, 50% RH, 24 hrs         0.2         %         ASTM D 570           Mold Shrinkage, flow, 24 hrs         2 - 3         %         ASTM D 955           Mold Shrinkage, xflow, 24 hrs         2 - 3         %         ASTM D 955           Mold Shrinkage, flow, 24 hrs         2.5         %         ISO 294           Mold Shrinkage, xflow, 24 hrs         2.5         %         ISO 294	HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	90	°C	ISO 75/Af
Moisture Absorption, 50% RH, 24 hrs       0.2       %       ASTM D 570         Mold Shrinkage, flow, 24 hrs       2 - 3       %       ASTM D 955         Mold Shrinkage, xflow, 24 hrs       2 - 3       %       ASTM D 955         Mold Shrinkage, flow, 24 hrs       2.5       %       ISO 294         Mold Shrinkage, xflow, 24 hrs       2.5       %       ISO 294	PHYSICAL	Value	Unit	Standard
Mold Shrinkage, flow, 24 hrs       2 - 3       %       ASTM D 955         Mold Shrinkage, xflow, 24 hrs       2 - 3       %       ASTM D 955         Mold Shrinkage, flow, 24 hrs       2.5       %       ISO 294         Mold Shrinkage, xflow, 24 hrs       2.5       %       ISO 294	Density	1.5	g/cm³	ASTM D 792
Mold Shrinkage, xflow, 24 hrs       2 - 3       %       ASTM D 955         Mold Shrinkage, flow, 24 hrs       2.5       %       ISO 294         Mold Shrinkage, xflow, 24 hrs       2.5       %       ISO 294	Moisture Absorption, 50% RH, 24 hrs	0.2	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs         2.5         %         ISO 294           Mold Shrinkage, xflow, 24 hrs         2.5         %         ISO 294	Mold Shrinkage, flow, 24 hrs	2 - 3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs 2.5 % ISO 294	Mold Shrinkage, xflow, 24 hrs	2 - 3	%	ASTM D 955
	Mold Shrinkage, flow, 24 hrs	2.5	%	ISO 294
Density 1.5 g/cm³ ISO 1183	Mold Shrinkage, xflow, 24 hrs	2.5	%	ISO 294
	Density	1.5	g/cm³	ISO 1183

Source GMD, last updated:09/24/2008

Parameter		
Injection Molding	Value	Unit
Drying Temperature	80	°C
Drying Time	4	hrs
Melt Temperature	200 - 215	°C
Front - Zone 3 Temperature	210 - 220	°C
Middle - Zone 2 Temperature	195 - 205	°C
Rear - Zone 1 Temperature	175 - 190	°C
Mold Temperature	80 - 110	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

Source GMD, last updated:09/24/2008

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

## PLEASE CHECK WITH YOUR (LOCAL SALES OFFICE) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

DISCIAIMER: THE MATERIALS AND PRODUCTS OF THE BUSINESSES MAKING UP THE SABIC INNOVATIVE

- (2) Only typical data for selection purposes. Not to be used for part or tool design.
- (3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
- (4) Internal measurements according to UL standards.

PLASTICS COMPANY, ITS SUBSIDIARIES AND AFFILIATES ("SABIC IP"), ARE SOLD SUBJECT TO SABIC IP'S STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT, PRINTED ON THE BACK OF ORDER ACKNOWLEDGMENTS AND INVOICES, AND AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SABIC IP MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (I) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (II) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING SABIC IP MATERIALS, PRODUCTS, RECOMMENDATIONS OR ADVICE. EXCEPT AS PROVIDED IN SABIC IP'S STANDARD CONDITIONS OF SALE, SABIC IP AND ITS REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS OR PRODUCTS DESCRIBED HEREIN. Each user bears full responsibility for making its own determination as to the suitability of SABIC IP's materials, products, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating SABIC IP materials or products will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of SABIC IP's Standard Conditions of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by SABIC IP. No statement contained herein concerning a

possible or suggested use of any material, product or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of SABIC Innovative Plastics Company or any of its subsidiaries or affiliates covering such use or design, or as a recommendation for the use of such material, product or design in the infringement of any patent or other intellectual property right

- \* LNP is a trademark of the SABIC Innovative Plastics Company
- \* Stat-kon is a trademark of the SABIC Innovative Plastics Company

© 1997-2008 SABIC Innovative Plastics Company. All rights reserved