



LNP* Stat-kon* Compound DE004ER

Americas: COMMERCIAL

LNP* Stat-Kon* DE004ER is a compound based on Polycarbonate resin containing carbon fiber fillers. Added features are Easy Molding and Mold Release.

Property

Paralle Stress, yld, Type I, 5 mm/min	TYPICAL PROPERTIES (1)			
Pensile Stress, brk, Type I, 5 mm/min	MECHANICAL	Value	Unit	Standard
Fensile Strain, yld, Type I, 5 mm/min	Tensile Stress, yld, Type I, 5 mm/min	134	MPa	ASTM D 638
Pensile Strain, brk, Type I, 5 mm/min	Tensile Stress, brk, Type I, 5 mm/min	134	MPa	ASTM D 638
Seriale Modulus, 50 mm/min	Tensile Strain, yld, Type I, 5 mm/min	1.8	%	ASTM D 638
Elexural Stress, yld, 1.3 mm/min, 50 mm span 197	Tensile Strain, brk, Type I, 5 mm/min	1.8	%	ASTM D 638
Pecural Stress, brk, 1.3 mm/min, 50 mm span 197	Tensile Modulus, 50 mm/min	14860	MPa	ASTM D 638
Textural Modulus, 1.3 mm/min, 50 mm span 10680 MPa ASTM D 790	Flexural Stress, yld, 1.3 mm/min, 50 mm span	197	MPa	ASTM D 790
Seriale Stress, yield, 5 mm/min	Flexural Stress, brk, 1.3 mm/min, 50 mm span	197	MPa	ASTM D 790
Seriale Stress, break, 5 mm/min 133 MPa ISO 527 Persile Strain, yield, 5 mm/min 1.7 % ISO 527 Persile Strain, break, 5 mm/min 1.7 % ISO 527 Persile Strain, break, 5 mm/min 1.7 % ISO 527 Persile Modulus, 1 mm/min 1.80 MPa ISO 527 Persile Modulus, 1 mm/min 1.80 MPa ISO 178 Persural Stress 197 MPa ISO 178 Persural Modulus, 2 mm/min 10660 Mpa ISO 178 Persural Modulus, 2 mm/min 107 ISO 180 Persural Modulus, 2 mm/min	Flexural Modulus, 1.3 mm/min, 50 mm span	10680	MPa	ASTM D 790
Sensile Strain, yield, 5 mm/min	Tensile Stress, yield, 5 mm/min	133	MPa	ISO 527
Seriale Strain, break, 5 mm/min	Tensile Stress, break, 5 mm/min	133	MPa	ISO 527
Tensile Modulus, 1 mm/min 12880 MPa ISO 527 Telexural Stress 197 MPa ISO 178 Telexural Modulus, 2 mm/min 10660 MPa ISO 178 Telexural Modulus, 2 mm/min 10660 MPa ISO 178 MPACT Value Unit Standard	Tensile Strain, yield, 5 mm/min	1.7	%	ISO 527
Secural Stress 197	Tensile Strain, break, 5 mm/min	1.7	%	ISO 527
Section Sect	Tensile Modulus, 1 mm/min	12880	MPa	ISO 527
MPACT Value Unit Standard zod Impact, unnotched, 23°C 476 J/m ASTM D 4812 zod Impact, notched, 23°C 69 J/m ASTM D 256 Multiaxial Impact 3 J ISO 6603 Instrumented Impact Total Energy, 23°C 13 J ASTM D 3763 zod Impact, unnotched 80*10*4 +23°C 29 kJ/m² ISO 180/1U zod Impact, notched 80*10*4 +23°C 6 kJ/m² ISO 180/1A THERMAL Value Unit Standard HDT, 0.45 MPa, 3.2 mm, unannealed 144 °C ASTM D 648 HDT, 1.82 MPa, 3.2mm, unannealed 141 °C ASTM D 648 HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 145 °C ISO 75/Bf HDT/Bf, 1.8 MPa Flatw 80*10*4 sp=64mm 142 °C ISO 75/Af PHYSICAL Value Unit Standard Specific Gravity 1.39 - ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 0.14 % ASTM D 955 Mold Shrinkage, xflow, 24 hrs <	Flexural Stress	197	MPa	ISO 178
ASTM D 4812	Flexural Modulus, 2 mm/min	10660	MPa	ISO 178
Second Impact, notched, 23°C 69	IMPACT	Value	Unit	Standard
Multiaxial Impact 3 J ISO 6603 Instrumented Impact Total Energy, 23°C 13 J ASTM D 3763 Zodd Impact, unnotched 80*10*4 +23°C 29 kJ/m² ISO 180/1U Zodd Impact, notched 80*10*4 +23°C 6 kJ/m² ISO 180/1A ITHERMAL Value Unit Standard HDT, 0.45 MPa, 3.2 mm, unannealed 144 °C ASTM D 648 HDT, 1.82 MPa, 3.2mm, unannealed 141 °C ASTM D 648 HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 145 °C ISO 75/Bf HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 142 °C ISO 75/Af PHYSICAL Value Unit Standard PHYSICAL Value Unit Standard Specific Gravity 1.39 - ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 0.14 % ASTM D 955 Mold Shrinkage, flow, 24 hrs 0.4 - 0.6 % ASTM D 955 Mold Shrinkage, xflow, 24 hrs 0.2 % ISO 62 ELECTRICAL Value </td <td>Izod Impact, unnotched, 23°C</td> <td>476</td> <td>J/m</td> <td>ASTM D 4812</td>	Izod Impact, unnotched, 23°C	476	J/m	ASTM D 4812
ASTM D 3763	Izod Impact, notched, 23°C	69	J/m	ASTM D 256
29 kJ/m² ISO 180/1U ISO 180/1U ISO 180/1U ISO 180/1U ISO 180/1U ISO 180/1U ISO 180/1A ISO 1	Multiaxial Impact	3	J	ISO 6603
Scot	Instrumented Impact Total Energy, 23°C	13	J	ASTM D 3763
THERMAL Value Unit Standard HDT, 0.45 MPa, 3.2 mm, unannealed 144 °C ASTM D 648 HDT, 1.82 MPa, 3.2mm, unannealed 141 °C ASTM D 648 HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 145 °C ISO 75/Bf HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 142 °C ISO 75/Af PHYSICAL Value Unit Standard Specific Gravity 1.39 - ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 0.14 % ASTM D 570 Mold Shrinkage, flow, 24 hrs 0.06 - 0.09 % ASTM D 955 Mold Shrinkage, xflow, 24 hrs 0.4 - 0.6 % ASTM D 955 Moisture Absorption (23°C / 50% RH) 0.2 % ISO 62 ELECTRICAL Value Unit Standard	Izod Impact, unnotched 80*10*4 +23°C	29	kJ/m²	ISO 180/1U
#DT, 0.45 MPa, 3.2 mm, unannealed #DT, 1.82 MPa, 3.2mm, unannealed #DT, 1.82 MPa, 3.2mm, unannealed #DT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm #DT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm #DT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm #DT/Af	Izod Impact, notched 80*10*4 +23°C	6	kJ/m²	ISO 180/1A
#DT, 1.82 MPa, 3.2mm, unannealed 141 °C ASTM D 648 HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm 145 °C ISO 75/Bf HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 142 °C ISO 75/Af PHYSICAL Value Unit Standard Specific Gravity 1.39 - ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 0.14 % ASTM D 570 Mold Shrinkage, flow, 24 hrs 0.06 - 0.09 % ASTM D 955 Mold Shrinkage, xflow, 24 hrs 0.4 - 0.6 % ASTM D 955 Moisture Absorption (23°C / 50% RH) 0.2 % ISO 62 ELECTRICAL Value Unit Standard	THERMAL	Value	Unit	Standard
#DT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm #DT/Af, 1.8 MPa F	HDT, 0.45 MPa, 3.2 mm, unannealed	144	°C	ASTM D 648
#DT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm 142 **C ISO 75/Af PHYSICAL Specific Gravity 1.39 Moisture Absorption, 50% RH, 24 hrs Mold Shrinkage, flow, 24 hrs Mold Shrinkage, xflow, 24 hrs Moisture Absorption (23°C / 50% RH) **ELECTRICAL **C ISO 75/Af **Standard **C ISO 75/Af Standard **C ISO 75/Af **Standard **C ISO 75/Af **Standard **C ISO 75/Af **Standard **ASTM D 792 **ASTM D 970 **ASTM D 955 **Moisture Absorption (23°C / 50% RH) **O.4 - 0.6 **O.4 - 0.6 **O.4 - 0.6 **O.5 ISO 62 **ELECTRICAL **Value **Unit Standard **O.4 - 0.6 **O.5 ISO 62 **ELECTRICAL **Value **Unit Standard **O.5 ISO 75/Af **ASTM D 955 **ASTM D 955 **ASTM D 955 **Moisture Absorption (23°C / 50% RH) **O.4 - 0.6 **Value **Unit Standard	HDT, 1.82 MPa, 3.2mm, unannealed	141	°C	ASTM D 648
PHYSICAL Value Unit Standard Specific Gravity 1.39 - ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 0.14 % ASTM D 570 Mold Shrinkage, flow, 24 hrs 0.06 - 0.09 % ASTM D 955 Mold Shrinkage, xflow, 24 hrs 0.4 - 0.6 % ASTM D 955 Moisture Absorption (23°C / 50% RH) 0.2 % ISO 62 ELECTRICAL Value Unit Standard	HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	145	°C	ISO 75/Bf
Specific Gravity 1.39 - ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 0.14 % ASTM D 570 Mold Shrinkage, flow, 24 hrs 0.06 - 0.09 % ASTM D 955 Mold Shrinkage, xflow, 24 hrs 0.4 - 0.6 % ASTM D 955 Moisture Absorption (23°C / 50% RH) 0.2 % ISO 62 ELECTRICAL Value Unit Standard	HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	142	°C	ISO 75/Af
Moisture Absorption, 50% RH, 24 hrs 0.14 % ASTM D 570 Mold Shrinkage, flow, 24 hrs 0.06 - 0.09 % ASTM D 955 Mold Shrinkage, xflow, 24 hrs 0.4 - 0.6 % ASTM D 955 Moisture Absorption (23°C / 50% RH) 0.2 % ISO 62 ELECTRICAL Value Unit Standard	PHYSICAL	Value	Unit	Standard
Mold Shrinkage, flow, 24 hrs 0.06 - 0.09 % ASTM D 955 Mold Shrinkage, xflow, 24 hrs 0.4 - 0.6 % ASTM D 955 Moisture Absorption (23°C / 50% RH) 0.2 % ISO 62 ELECTRICAL Value Unit Standard	Specific Gravity	1.39	-	ASTM D 792
Mold Shrinkage, xflow, 24 hrs 0.4 - 0.6 % ASTM D 955 Moisture Absorption (23°C / 50% RH) 0.2 % ISO 62 ELECTRICAL Value Unit Standard	Moisture Absorption, 50% RH, 24 hrs	0.14	%	ASTM D 570
Moisture Absorption (23°C / 50% RH) ELECTRICAL 0.2 % ISO 62 Value Unit Standard	Mold Shrinkage, flow, 24 hrs	0.06 - 0.09	%	ASTM D 955
ELECTRICAL Value Unit Standard	Mold Shrinkage, xflow, 24 hrs	0.4 - 0.6	%	ASTM D 955
	Moisture Absorption (23°C / 50% RH)	0.2	%	ISO 62
Surface Resistivity 2.E+00 - 4.E+00 Ohm ASTM D 257	ELECTRICAL	Value	Unit	Standard
	Surface Resistivity	2.E+00 - 4.E+00	Ohm	ASTM D 257

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.
- (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.

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