

LNP* Stat-loy* Compound W3000XXJ
Americas: COMMERCIAL

LNP* Stat-Loy* W3000XXJ is a compound based on Thermoplastic Polyester (PBT) containing Anti-Static. Characteristics of this grade are: Anti-Stat, Colorable, Healthcare

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	410	kgf/cm ²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	4.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	19700	kgf/cm ²	ASTM D 638
Flexural Modulus, 1.3 mm/min, 50 mm span	19700	kgf/cm ²	ASTM D 790
Tensile Stress, break, 5 mm/min	42	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	8.5	%	ISO 527
Tensile Strain, break, 5 mm/min	9.6	%	ISO 527
Tensile Modulus, 1 mm/min	1880	MPa	ISO 527
Flexural Stress	61	MPa	ISO 178
Flexural Modulus, 2 mm/min	1890	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	142	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	6	cm-kgf/cm	ASTM D 256
Multiaxial Impact	8	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	37	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	89	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	157	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	55	°C	ASTM D 648
CTE, -30°C to 30°C, flow	1.15E-04	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	1.28E-04	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	139	°C	ISO 75/Bf

广州华秀塑胶有限公司
(Sabic沙伯基础创新塑料 一级经销商)
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(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±176;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.

(5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

Source GMD, last updated:

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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	54	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.27	-	ASTM D 792
Density	1.27	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.23	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	2 - 4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	2 - 4	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.37	%	ISO 62
ELECTRICAL			
Surface Resistivity	1.E+11 - 1.E+13	Ohm	ASTM D 257



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	110	°C
Drying Time	4	hrs
Maximum Moisture Content	0.05	%
Melt Temperature	220 - 230	°C
Front - Zone 3 Temperature	220 - 230	°C
Middle - Zone 2 Temperature	215 - 225	°C
Rear - Zone 1 Temperature	205 - 215	°C
Mold Temperature	10 - 50	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm



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