

SABIC Innovative Plastics LNP THERMOCOMP PX01658 PA 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

LNP* Thermocomp* PX01658 is a compound based on Nylon 6 containing Proprietary Fillers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-PX01658-PA-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ASTM D792
Density	1.33 g/cc	0.0480 lb/in ³	ASTM D792
Moisture Absorption	0.750 %	0.750 %	50% RH, 24 hrs; ASTM D570
	1.10 %	1.10 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm @Time 86400 sec	0.0010 - 0.0030 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm @Time 86400 sec	0.0050 - 0.0070 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	257 MPa	37300 psi	Type I, 5 mm/min; ASTM D638
	267 MPa	38700 psi	5 mm/min; ISO 527
Elongation at Break	1.9 %	1.9 %	5 mm/min; ISO 527
	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	1.9 %	1.9 %	5 mm/min; ISO 527
Tensile Modulus	30.91 GPa	4483 ksi	1 mm/min; ISO 527
	32.74 GPa	4749 ksi	50 mm/min; ASTM D638
Flexural Strength	391 MPa	56700 psi	1.3 mm/min, 50 mm span; ASTM D790
	393 MPa	57000 psi	ISO 178
Flexural Yield Strength	392 MPa	56900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	24.7 GPa	3580 ksi	1.3 mm/min, 50 mm span; ASTM D790
	25.77 GPa	3738 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric _{/cm}	English _{lb/in}	Comments
Izod Impact, Unnotched	10.2 J/cm	19.1 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	67.0 kJ/m ²	31.9 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	13.0 J @Temperature 23.0 °C	9.59 ft-lb @Temperature 73.4 °F	ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	19.2 µm/m-°C @Temperature -30.0 - 30.0 °C	10.7 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
CTE, linear, Transverse to Flow	64.1 µm/m-°C @Temperature -30.0 - 30.0 °C	35.6 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	220 °C @Thickness 3.20 mm	428 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	213 °C @Thickness 3.20 mm	415 °F @Thickness 0.126 in	unannealed; ASTM D648

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