

SABIC Innovative Plastics LNP Thermocomp OK006 PPS - Linear

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

LNP* Thermocomp* OK006 is based on a Linear Polyphenylene Sulfide (PPS) containing Talc. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-OK006-PPS-Linear.php

Physical Properties	Metric	English	Comments
Density	1.59 g/cc	0.0574 lb/in ³	ASTM D 792
	1.59 g/cc	0.0574 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.030 %	0.030 %	23 ^o C / 50% RH; ISO 62
	0.020 % @Time 86400 sec	0.020 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	66.0 MPa	9570 psi	5 mm/min; ISO 527
	72.0 MPa	10400 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	66.0 MPa	9570 psi	5 mm/min; ISO 527
	72.0 MPa	10400 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	1.2 %	1.2 %	5 mm/min; ISO 527
	1.4 %	1.4 %	Type I, 5 mm/min; ASTM D 638
Elongation at Yield	1.2 %	1.2 %	5 mm/min; ISO 527
	1.4 %	1.4 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	7.79 GPa	1130 ksi	1 mm/min; ISO 527
	8.34 GPa	1210 ksi	50 mm/min; ASTM D 638
Flexural Strength	105 MPa	15200 psi	ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	112 MPa	16200 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	7.30 GPa	1060 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	7.55 GPa	1100 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.250 J/cm @Temperature 23.0 Â°C	0.468 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	2.11 J/cm @Temperature 23.0 Â°C	3.95 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	2.00 kJ/mÂ² @Temperature 23.0 Â°C	0.952 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	13.0 kJ/mÂ² @Temperature 23.0 Â°C	6.19 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
	8.00 J @Temperature 23.0 Â°C	5.90 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	226 Â°C	439 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	244 Â°C @Thickness 3.20 mm	471 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	117 Â°C	243 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	123 Â°C @Thickness 3.20 mm	253 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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