

SABIC Innovative Plastics LNP Thermocomp OX92080 PPS - LINEAR

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

LNP* Thermocomp* OX92080 is a compound based on Linear PPS containing Proprietary Fillers. 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-OX92080-PPS-LINEAR.php

Physical Properties	Metric	English	Comments
Specific Gravity	4.80 g/cc	4.80 g/cc	ASTM D 792
Density	4.70 g/cc	0.170 lb/in ³	ASTM D 792
	4.70 g/cc	0.170 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.00 %	0.00 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0070 cm/cm	0.0070 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	58.0 MPa	8410 psi	5 mm/min; ISO 527
	60.0 MPa	8700 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	0.60 %	0.60 %	Type I, 5 mm/min; ASTM D 638
	0.60 %	0.60 %	5 mm/min; ISO 527
Tensile Modulus	10.84 GPa	1572 ksi	1 mm/min; ISO 527
	12.8 GPa	1860 ksi	5 mm/min; ASTM D 638
Flexural Strength	79.0 MPa	11500 psi	1.3 mm/min, 50 mm span; ASTM D 790
	87.0 MPa	12600 psi	ISO 178
Flexural Modulus	11.71 GPa	1698 ksi	2 mm/min; ISO 178
	11.9 GPa	1730 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	0.450 J/cm	0.843 ft-lb/in	

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched	1.23 J/cm @Temperature 23.0 °C	2.30 ft-lb/in @Temperature 73.4 °F	ASTM D 4812
Izod Impact, Notched (ISO)	7.00 kJ/m ² @Temperature 23.0 °C	3.33 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	7.00 kJ/m ² @Temperature 23.0 °C	3.33 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1U
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
	4.00 J @Temperature 23.0 °C	2.95 ft-lb @Temperature 73.4 °F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	34.0 µm/m-°C @Temperature -30.0 - 30.0 °C	18.9 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D 696
CTE, linear, Transverse to Flow	33.0 µm/m-°C @Temperature -30.0 - 30.0 °C	18.3 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	235 °C	455 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	251 °C @Thickness 3.20 mm	484 °F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	162 °C	324 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	169 °C @Thickness 3.20 mm	336 °F @Thickness 0.126 in	unannealed; ASTM D 648

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