

SABIC Innovative Plastics LNP Thermocomp OFJ66 PPS - Linear

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

LNP* Thermocomp* OFJ66 is a compound based on PPS - Linear resin containing Glass Fiber, Mineral. Added features of this material include: Low Warpage. 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-OFJ66-PPS-Linear.php

Physical Properties	Metric	English	Comments
Density	1.95 g/cc	0.0704 lb/in ³	ISO 1183
	1.96 g/cc	0.0708 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.030 %	0.030 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ISO 294
	@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	
	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	130 MPa	18900 psi	ISO 527
	134 MPa	19400 psi	ASTM D 638
Elongation at Break	1.2 %	1.2 %	ASTM D 638
	1.2 %	1.2 %	ISO 527
Tensile Modulus	19.0 GPa	2760 ksi	1 mm/min; ISO 527
Flexural Strength	199 MPa	28900 psi	ASTM D 790
	210 MPa	30500 psi	ISO 178
Flexural Modulus	18.8 GPa	2730 ksi	ISO 178
	19.21 GPa	2786 ksi	ASTM D 790

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.450 J/cm @Temperature 23.0 Â°C	8.845 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Notched (ISO)	6.00 kJ/mÂ² @Temperature 23.0 Â°C	2.86 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	20.0 kJ/mÂ² @Temperature 23.0 Â°C	9.52 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	19.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	10.6 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	19.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	10.6 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	24.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	13.3 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	30.7 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	17.1 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 1.8 MPa (264 psi)	270 Â°C	518 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	265 Â°C @Thickness 3.20 mm	509 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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