

SABIC Innovative Plastics LNP Thermocomp OC008A PPS - Branched

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

LNP* Thermocomp* OC008A is a compound based on Branched Polyphenylene Sulfide containing Carbon Fiber. 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-OC008A-PPS-Branched.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.49 g/cc	1.49 g/cc	ASTM D 792
Density	1.49 g/cc	0.0538 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.040 %	0.040 %	23 ^o C / 50% RH; ISO 62
	0.040 % @Time 86400 sec	0.040 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.0030 - 0.0060 cm/cm @Time 86400 sec	0.0030 - 0.0060 in/in @Time 24.0 hour	ASTM D 955
Linear Mold Shrinkage, Transverse	0.0020 - 0.0050 cm/cm @Time 86400 sec	0.0020 - 0.0050 in/in @Time 24.0 hour	ASTM D 955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	162 MPa	23500 psi	5 mm/min; ISO 527
	192 MPa	27800 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	5.1 %	5.1 %	5 mm/min; ISO 527
	5.3 %	5.3 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	74.84 GPa	10850 ksi	50 mm/min; ASTM D 638
Flexural Strength	259 MPa	37600 psi	1.3 mm/min, 50 mm span; ASTM D 790
	264 MPa	38300 psi	ISO 178
Flexural Modulus	28.3 GPa	4100 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	28.97 GPa	4202 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.530 J/cm @Temperature 23.0	0.993 ft-lb/in @Temperature 73.4 ^o F	ASTM D 256

Mechanical Properties	^{Â°C} Metric	English	Comments
Izod Impact, Unnotched	5.24 J/cm @Temperature 23.0 Â°C	9.82 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	4.00 kJ/mÂ² @Temperature 23.0 Â°C	1.90 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	22.0 kJ/mÂ² @Temperature 23.0 Â°C	10.5 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	11.6 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	6.44 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
CTE, linear, Transverse to Flow	22.6 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	12.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	278 Â°C	532 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	268 Â°C @Thickness 3.20 mm	514 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	276 Â°C	529 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	246 Â°C @Thickness 3.20 mm	475 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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