

SABIC Innovative Plastics LNP THERMOCOMP 9X11428J PPS

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

LNP* THERMOCOMP* 9X11428J is a compound based on Polyphenylsulfone containing Proprietary Fillers. Added features of this material include: Healthcare, Low Extractable.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-9X11428J-PPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ASTM D792
Density	1.34 g/cc	0.0484 lb/in ³	ASTM D792
Moisture Absorption	0.290 %	0.290 %	50% RH, 24 hrs; ASTM D570
	0.400 %	0.400 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0090 - 0.020 cm/cm	0.0090 - 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	57.0 MPa	8270 psi	5 mm/min; ISO 527
	58.0 MPa	8410 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	71.0 MPa	10300 psi	5 mm/min; ISO 527
	74.0 MPa	10700 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	15 %	15 %	Type I, 5 mm/min; ASTM D638
	22 %	22 %	5 mm/min; ISO 527
Elongation at Yield	7.0 %	7.0 %	5 mm/min; ISO 527
	8.0 %	8.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.33 GPa	338 ksi	1 mm/min; ISO 527
	2.38 GPa	345 ksi	5 mm/min; ASTM D638
Flexural Strength	91.0 MPa	13200 psi	ISO 178
Flexural Modulus	2.27 GPa	329 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	1.87 J/cm	3.50 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4; ISO 180/1A
Dart Drop, Total Energy	42.0 J @Temperature 23.0 Â°C	31.0 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	44.0 J	32.5 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	55.0 Âµm/m-Â°C	30.6 Âµin/in-Â°F	ASTM D696
	@Temperature -30.0 - 30.0 Â°C	@Temperature -22.0 - 86.0 Â°F	
CTE, linear, Transverse to Flow	55.0 Âµm/m-Â°C	30.6 Âµin/in-Â°F	ASTM D696
	@Temperature -30.0 - 30.0 Â°C	@Temperature -22.0 - 86.0 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	210 Â°C	410 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	196 Â°C	385 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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