

SABIC Innovative Plastics LNP THERMOCOMP OF008A PPS - Branched

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

LNP* THERMOCOMP* OF008A is a compound based on PPS - Branched resin containing 40% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-OF008A-PPS-Branched.php

Physical Properties	Metric	English	Comments
Density	1.68 g/cc	0.0607 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	160 MPa	23200 psi	ISO 527
	178 MPa	25800 psi	ASTM D638
Elongation at Break	1.2 %	1.2 %	ISO 527
	1.7 %	1.7 %	ASTM D638
Flexural Strength	190 MPa	27600 psi	ISO 178
	248 MPa	36000 psi	ASTM D790
Flexural Modulus	13.4 GPa	1940 ksi	ISO 178
	14.26 GPa	2068 ksi	ASTM D790
Izod Impact, Notched	1.01 J/cm	1.89 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.87 J/cm	11.0 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	21.0 kJ/m ²	9.99 ft-lb/in ²	80*10*4; ISO 180/1U
Coefficient of Friction, Dynamic	0.41	0.41	ASTM D3702 Modified
Coefficient of Friction, Static	0.87	0.87	ASTM D3702 Modified
K (wear) Factor	483 x 10 ⁻⁸ mm ³ /N-M	240 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	26.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	14.4 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	272 $\text{Å}^\circ\text{C}$	522 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	261 $\text{Å}^\circ\text{C}$	502 $\text{Å}^\circ\text{F}$	
Flammability, UL94	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
	V-0	V-0	
Flammability, UL94	@Thickness 0.450 mm	@Thickness 0.0177 in	UL 94 by SABIC-IP
	V-0	V-0	

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