

SABIC Innovative Plastics LNP THERMOCOMP 9X04488 PPS

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

LNP* THERMOCOMP* 9X04488 is a compound based on PPS resin containing Mineral.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-9X04488-PPS.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in ³	ASTM D792
	1.31 g/cc	0.0473 lb/in ³	ISO 1183
Moisture Absorption	0.300 %	0.300 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0090 - 0.011 cm/cm	0.0090 - 0.011 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	59.0 MPa	8560 psi	ASTM D638
Tensile Strength, Yield	69.0 MPa	10000 psi	ISO 527
	74.0 MPa	10700 psi	ASTM D638
Elongation at Break	19.2 %	19.2 %	ASTM D638
Elongation at Yield	7.7 %	7.7 %	ISO 527
	8.2 %	8.2 %	ASTM D638
Tensile Modulus	2.12 GPa	307 ksi	1 mm/min; ISO 527
	2.28 GPa	331 ksi	50 mm/min; ASTM D638
Flexural Strength	71.0 MPa	10300 psi	ISO 178
	96.0 MPa	13900 psi	ASTM D790
Flexural Modulus	2.09 GPa	303 ksi	ISO 178
	2.46 GPa	357 ksi	ASTM D790

Mechanical Properties	Metric/cm	English/lb/in	Comments
Izod Impact, Unnotched	25.63 J/cm	48.02 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	14.0 kJ/m ²	6.66 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	NB	NB	80*10*4; ISO 180/1U
Dart Drop, Total Energy	51.0 J	37.6 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	59.0 J	43.5 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	53.3 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	29.6 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	54.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	30.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	52.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	29.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@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)	52.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	29.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	195 $\text{Å}^\circ\text{C}$	383 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	200 $\text{Å}^\circ\text{C}$	392 $\text{Å}^\circ\text{F}$	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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