

SABIC Innovative Plastics LNP THERMOCOMP LX03447 PEEK

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK)

Material Notes:

LNP* THERMOCOMP* LX03447 is a compound based on Polyetheretherketone containing Proprietary Filler(s).

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-LX03447-PEEK.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	ASTM D792
Moisture Absorption	0.0500 %	0.0500 %	50% RH, 24 hrs; ASTM D570
	0.0700 %	0.0700 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.030 cm/cm	0.0010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	246 MPa	35700 psi	5 mm/min; ISO 527
	248 MPa	36000 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.5 %	1.5 %	5 mm/min; ISO 527
	1.6 %	1.6 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	28.35 GPa	4112 ksi	1 mm/min; ISO 527
	28.54 GPa	4139 ksi	50 mm/min; ASTM D638
Flexural Strength	360 MPa	52200 psi	ISO 178
	365 MPa	52900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	370 MPa	53700 psi	1.3 mm/min, 50 mm span; ASTM D790
	23.7 GPa	3440 ksi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	23.8 GPa	3450 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.700 J/cm	1.31 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.71 J/cm	14.4 ft-lb/in	ASTM D4812

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched (ISO)	45.0 kJ/m ²	21.4 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	7.00 J @Temperature 23.0 Â°C	5.16 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	9.00 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	5.00 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	38.9 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	21.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	335 Â°C	635 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	337 Â°C @Thickness 3.20 mm	639 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	318 Â°C	604 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	325 Â°C @Thickness 3.20 mm	617 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China