

SABIC Innovative Plastics LNP THERMOCOMP LX04015 PEEK (Europe-Africa-Middle East)

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

Material Notes:

LNP* THERMOCOMP* LX04015 is a compound based on Polyetheretherketone containing Carbon Fiber. Added features include: Electrically Conductive

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-LX04015-PEEK-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	200 MPa	29000 psi	5 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527
	3.1 %	3.1 %	Flexural Strain, break, 2 mm/min; ISO 178
Tensile Modulus	13.8 GPa	2000 ksi	1 mm/min; ISO 527
Flexural Yield Strength	275 MPa	39900 psi	2 mm/min; ISO 178
Flexural Modulus	11.1 GPa	1610 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	30.0 kJ/m ²	14.3 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	10.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	5.56 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	54.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	30.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	300 $\text{Å}^\circ\text{C}$	572 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af

Electrical Properties	Metric	English	Comments
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Surface Resistance Electrical Properties	10000 - 1.00e+7 ohm Metric	10000 - 1.00e+7 ohm English	ASTM D257 Comments
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