

SABIC Innovative Plastics LNP THERMOCOMP EC005R PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP* THERMOCOMP* EC005R is a compound based on Polyetherimide resin containing 25% Carbon Fiber. Added features include: Mold Release, Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-EC005R-PEI.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	ASTM D792
	1.36 g/cc	0.0491 lb/in ³	ISO 1183
Moisture Absorption	0.180 %	0.180 %	50% RH, 24 hrs; ASTM D570
	0.180 %	0.180 %	23 ^o C / 50% RH; ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	179 MPa	26000 psi	5 mm/min; ISO 527
	200 MPa	29000 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	83.0 MPa	12000 psi	5 mm/min; ISO 527
	132 MPa	19100 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	0.70 %	0.70 %	Type I, 5 mm/min; ASTM D638
	1.0 %	1.0 %	5 mm/min; ISO 527
Tensile Modulus	22.9 GPa	3320 ksi	1 mm/min; ISO 527
	41.99 GPa	6090 ksi	50 mm/min; ASTM D638
Flexural Strength	275 MPa	39900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	18.56 GPa	2692 ksi	2 mm/min; ISO 178
	19.08 GPa	2767 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.640 J/cm	1.20 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.19 J/cm	9.72 ft-lb/in	ASTM D4812
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)	29.0 kJ/m ²	13.8 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	18.8 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	10.4 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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	24.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	13.3 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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 0.46 MPa (66 psi)	217 $\text{Å}^\circ\text{C}$	423 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	214 $\text{Å}^\circ\text{C}$	417 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	210 $\text{Å}^\circ\text{C}$	410 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	207 $\text{Å}^\circ\text{C}$	405 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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