

SABIC Innovative Plastics LNP THERMOCOMP YF003S Polyester Elastomer (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

LNP* THERMOCOMP* YF003S is a compound based on Polyester Elastomer containing Glass Fiber. Added features include; Heat Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-YF003S-Polyester-Elastomer-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Water Absorption	0.54 % @Time 86400 sec	0.54 % @Time 24.0 hour	ISO 62-1
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	42.0 MPa	6090 psi	50 mm/min; ISO 527
Tensile Strength, Yield	43.0 MPa	6240 psi	50 mm/min; ISO 527
Elongation at Yield	15 %	15 %	50 mm/min; ISO 527
Tensile Modulus	1.50 GPa	218 ksi	1 mm/min; ISO 527
Flexural Yield Strength	45.0 MPa	6530 psi	2 mm/min; ISO 178
Flexural Modulus	1.20 GPa	174 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	28.0 kJ/m ²	13.3 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	85.0 kJ/m ²	40.4 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	34.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$	18.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$	ISO 11359-2
CTE, linear, Transverse to Flow	195 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$	108 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	163 $\text{Å}^\circ\text{C}$	325 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	121 A°C	250 A°F	Flatw 80*10*4 Sp=0.4mm, ISO T5/AT

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