

SABIC Innovative Plastics LNP THERMOCOMP YF002 POLYESTER ELASTOMER

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

LNP* THERMOCOMP* YF002 is a compound based on Poyester Elastomer containing 10% Glass Fiber. Added feature of this grade is: High Modulus.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-YF002-POLYESTER-ELASTOMER.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Density	1.30 g/cc	0.0470 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm @Time 86400 sec	>= 0.020 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm @Time 86400 sec	0.010 - 0.030 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	58.0 MPa	8410 psi	Type I, 5 mm/min; ASTM D638
	59.0 MPa	8560 psi	5 mm/min; ISO 527
Tensile Strength, Yield	60.0 MPa	8700 psi	Type I, 5 mm/min; ASTM D638
	60.0 MPa	8700 psi	5 mm/min; ISO 527
Elongation at Break	12 %	12 %	5 mm/min; ISO 527
	13 %	13 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	9.0 %	9.0 %	Type I, 5 mm/min; ASTM D638
	9.0 %	9.0 %	5 mm/min; ISO 527
Tensile Modulus	2.29 GPa	332 ksi	1 mm/min; ISO 527
	2.53 GPa	367 ksi	5 mm/min; ASTM D638
Flexural Strength	62.0 MPa	8990 psi	ISO 178
Flexural Modulus	1.86 GPa	270 ksi	2 mm/min; ISO 178
	2.00 GPa	290 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.58 J/cm	2.96 ft-lb/in	ASTM D256

Mechanical Properties <i>Izod Impact, Unnotched</i>	Metric <i>9.89 J/cm</i>	English <i>18.5 ft-lb/in</i>	Comments <i>ASTM D4812</i>
Izod Impact, Notched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	64.0 kJ/m ²	30.5 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J @Temperature 23.0 Â°C	4.43 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	9.00 J	6.64 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	67.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	37.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	135 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	75.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	194 Â°C	381 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	205 Â°C @Thickness 3.20 mm	401 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	153 Â°C	307 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	184 Â°C @Thickness 3.20 mm	363 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