

SABIC Innovative Plastics LNP THERMOCOMP 2X04505 ETFE

Category : Polymer , Thermoplastic , Fluoropolymer , ETFE/ECTFE

Material Notes:

LNP* THERMOCOMP* 2X04505 is a compound based on ETFE resin containing Proprietary Filler(s).

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-2X04505-ETFE.php

Physical Properties	Metric	English	Comments
Density	1.74 g/cc	0.0629 lb/in ³	ISO 1183
	1.75 g/cc	0.0632 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.011 cm/cm	0.011 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.018 - 0.020 cm/cm	0.018 - 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.019 cm/cm	0.019 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	85.0 MPa	12300 psi	ASTM D638
	85.0 MPa	12300 psi	Type I, 5 mm/min; ASTM D638
	88.0 MPa	12800 psi	ISO 527
Tensile Strength, Yield	87.0 MPa	12600 psi	ASTM D638
	87.0 MPa	12600 psi	Type I, 5 mm/min; ASTM D638
	89.0 MPa	12900 psi	ISO 527
Elongation at Break	4.8 %	4.8 %	ASTM D638
	4.8 %	4.8 %	Type I, 5 mm/min; ASTM D638
	4.9 %	4.9 %	ISO 527
Elongation at Yield	4.5 %	4.5 %	ASTM D638
	4.5 %	4.5 %	Type I, 5 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
Tensile Modulus	11.58 GPa	1680 ksi	1 mm/min; ISO 527
	15.16 GPa	2199 ksi	50 mm/min; ASTM D638
Flexural Strength	319 MPa	46300 psi	ISO 178
Flexural Modulus	10.34 GPa	1500 ksi	ASTM D790
	10.34 GPa	1500 ksi	1.3 mm/min, 50 mm span; ASTM D790
	18.8 GPa	2730 ksi	ISO 178
Izod Impact, Notched	2.72 J/cm	5.10 ft-lb/in	ASTM D256
Izod Impact, Unnotched	10.3 J/cm	19.3 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	23.0 kJ/m ²	10.9 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	58.0 kJ/m ²	27.6 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	18.0 J	13.3 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	8.00 J	5.90 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	77.4 µm/m-°C	43.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	78.0 µm/m-°C	43.3 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	12.0 µm/m-°C	6.67 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	12.6 µm/m-°C	7.00 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 0.46 MPa (66 psi)	251 °C	484 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	255 °C	491 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	207 °C	405 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af

Thermal Properties	Metric	English	Comments
	@Thickness 3.20 mm	@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