

SABIC Innovative Plastics LNP THERMOCOMP 2X98703 ETFE

Category : Polymer , Thermoplastic , Fluoropolymer , ETFE/ECTFE

Material Notes:

LNP* THERMOCOMP* 2X98703 is a compound based on ETFE Copolymer resin containint Proprietary Filler(s).

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-2X98703-ETFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.73 g/cc	1.73 g/cc	ASTM D792
Density	1.73 g/cc	0.0625 lb/in ³	ASTM D792
Moisture Absorption	0.0100 %	0.0100 %	50% RH, 24 hrs; ASTM D570
	0.0100 %	0.0100 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 cm/cm @Time 86400 sec	0.0040 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.010 cm/cm @Time 86400 sec	0.010 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	88.0 MPa	12800 psi	5 mm/min; ISO 527
	98.0 MPa	14200 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	95.0 MPa	13800 psi	5 mm/min; ISO 527
	101 MPa	14600 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	5.5 %	5.5 %	5 mm/min; ISO 527
	5.9 %	5.9 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	5.0 %	5.0 %	5 mm/min; ISO 527
	5.6 %	5.6 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	11.22 GPa	1627 ksi	1 mm/min; ISO 527
	14.18 GPa	2057 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	135 MPa	19600 psi	2 mm/min; ISO 178
	143 MPa	20700 psi	1.3 mm/min, 50 mm span; ASTM D790

Flexural Modulus Mechanical Properties	10.44 GPa Metric	1514 ksi English	2 mm/min; ISO 178 Comments
	10.6 GPa	1540 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	4.11 J/cm	7.70 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.81 J/cm	9.01 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	34.0 kJ/m ²	16.2 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	88.0 kJ/m ²	41.9 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	20.0 J @Temperature 23.0 Â°C	14.8 ft-lb @Temperature 73.4 Â°F	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	17.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	9.44 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	72.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	40.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	239 Â°C	462 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	248 Â°C @Thickness 3.20 mm	478 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	187 Â°C	369 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	214 Â°C @Thickness 3.20 mm	417 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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