

## SABIC Innovative Plastics LNP THERMOCOMP 2FL24 ETFE

Category : Polymer , Thermoplastic , Fluoropolymer , ETFE/ECTFE

### Material Notes:

LNP\* THERMOCOMP\* 2FL24 is a compound based on ETFE resin containing 20% Glass Fiber, 10% PTFE. Added feature of this grade is Wear Resistant.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-2FL24-ETFE.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-2FL24-ETFE.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.80 g/cc	1.80 g/cc	ASTM D792
Density	1.80 g/cc	0.0650 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.0100 %	0.0100 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm @Time 86400 sec	0.0060 - 0.0080 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	67.0 MPa	9720 psi	5 mm/min; ISO 527
	69.0 MPa	10000 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	6.2 %	6.2 %	5 mm/min; ISO 527
	6.5 %	6.5 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	5.00 GPa	725 ksi	1 mm/min; ISO 527
	6.44 GPa	934 ksi	5 mm/min; ASTM D638
Flexural Strength	89.0 MPa	12900 psi	ISO 178
Flexural Modulus	4.76 GPa	690 ksi	1.3 mm/min, 50 mm span; ASTM D790
	4.98 GPa	722 ksi	2 mm/min; ISO 178
Izod Impact, Notched	4.88 J/cm	9.14 ft-lb/in	ASTM D256
Izod Impact, Unnotched	13.4 J/cm	25.1 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	45.0 kJ/m <sup>2</sup>	21.4 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	92.0 kJ/m <sup>2</sup>	43.8 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U

Mechanical Properties	Metric	English	Comments
Dart Drop, Total Energy	@Temperature 23.0 Â°C	@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	24.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	13.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	94.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	52.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	239 Â°C	462 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	251 Â°C @Thickness 3.20 mm	484 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	160 Â°C	320 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	198 Â°C @Thickness 3.20 mm	388 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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