

## SABIC Innovative Plastics LNP THERMOCOMP 2Z004 ETFE

Category : Polymer , Thermoplastic , Fluoropolymer , ETFE/ECTFE

### Material Notes:

LNP\* THERMOCOMP\* 2Z004 is a compound based on ETFE resin containing 20% Milled Glass.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-2Z004-ETFE.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-2Z004-ETFE.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.84 g/cc	1.84 g/cc	ASTM D792
Density	1.83 g/cc	0.0661 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.0100 %	0.0100 %	50% RH, 24 hrs; ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	21.0 MPa	3050 psi	Type I, 5 mm/min; ASTM D638
	22.0 MPa	3190 psi	5 mm/min; ISO 527
Tensile Strength, Yield	27.0 MPa	3920 psi	5 mm/min; ISO 527
	29.0 MPa	4210 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	53 %	53 %	Type I, 5 mm/min; ASTM D638
	78 %	78 %	5 mm/min; ISO 527
Elongation at Yield	22 %	22 %	5 mm/min; ISO 527
	23 %	23 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	1.51 GPa	219 ksi	1 mm/min; ISO 527
	1.70 GPa	247 ksi	50 mm/min; ASTM D638
Flexural Strength	24.0 MPa	3480 psi	ISO 178
Flexural Modulus	1.21 GPa	175 ksi	2 mm/min; ISO 178
	1.28 GPa	186 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	6.15 J/cm	11.5 ft-lb/in	ASTM D256
Izod Impact, Unnotched	13.4 J/cm	25.1 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	37.0 kJ/m <sup>2</sup>	17.6 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	119 kJ/m <sup>2</sup>	56.6 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

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	44.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	87.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	48.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	89.0 Â°C	192 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	88.0 Â°C @Thickness 3.20 mm	190 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	50.0 Â°C	122 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	52.0 Â°C @Thickness 3.20 mm	126 Â°F @Thickness 0.126 in	unannealed; ASTM D648

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China