

SABIC Innovative Plastics LNP Lubricomp YP003 TPEE

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyester, TP , Polyether Ester Elastomer

Material Notes:

LNP LUBRICOMP* YP003 is a compound based on TPEE resin containing PTFE, Silicone. Added features of this material include: Internally Lubricated. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Lubricomp-YP003-TPEE.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ASTM D 792
	1.27 g/cc	0.0459 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.50 %	0.50 %	23 ^o C / 50% RH; ISO 62
	0.37 %	0.37 %	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.021 cm/cm	0.021 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0213 cm/cm	0.0213 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.020 cm/cm	0.020 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0205 cm/cm	0.0205 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	13.0 MPa	1890 psi	ASTM D 638
	14.0 MPa	2030 psi	ISO 527
Elongation at Yield	39.9 %	39.9 %	ISO 527
	53.5 %	53.5 %	ASTM D 638
Tensile Modulus	0.200 GPa	29.0 ksi	50 mm/min; ASTM D 638
	0.240 GPa	34.8 ksi	1 mm/min; ISO 527
Flexural Modulus	0.260 GPa	37.7 ksi	ASTM D 790
	0.270 GPa	39.2 ksi	ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	2.40 J/cm @Temperature 23.0 Â°C	4.50 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	NB @Temperature 23.0 Â°C	NB @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	27.0 kJ/mÂ² @Temperature 23.0 Â°C	12.8 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	NB @Temperature 23.0 Â°C	NB @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	26.0 J	19.2 ft-lb	Multiaxial Impact; ISO 6603
	27.0 J @Temperature 23.0 Â°C	19.9 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763
Coefficient of Friction, Dynamic	0.47	0.47	ASTM D 3702 Modified
Coefficient of Friction, Static	0.45	0.45	ASTM D 3702 Modified
K (wear) Factor	10.1 x 10 ⁻⁸ mmÂ³/N-M	5.00 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	Washer; ASTM D 3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	111 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	61.7 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	111 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	61.7 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	184 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	102 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	184 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	102 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	47.0 Â°C @Thickness 3.20 mm	117 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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