

SABIC Innovative Plastics LNP LUBRICOMP WFL369 PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

LNP* Lubricomp* WFL369 is a compound based on Polybutylene Terephthalate resin containing Glass Fiber, PTFE, Flame Retardant. Added features of this material include: Internally Lubricated, Flame Retardant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-WFL369-PBT.php

Physical Properties	Metric	English	Comments
Density	1.78 g/cc	0.0643 lb/in ³	ASTM D792
	1.78 g/cc	0.0643 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0051 cm/cm	0.0051 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.015 cm/cm	0.015 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.014 - 0.016 cm/cm	0.014 - 0.016 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	102 MPa	14800 psi	ASTM D638
	106 MPa	15400 psi	ISO 527
Tensile Strength, Yield	105 MPa	15200 psi	ASTM D638
	106 MPa	15400 psi	ISO 527
Elongation at Break	2.0 %	2.0 %	ISO 527
	2.1 %	2.1 %	ASTM D638
Elongation at Yield	2.0 %	2.0 %	ISO 527
	2.1 %	2.1 %	ASTM D638
Tensile Modulus	11.2 GPa	1620 ksi	1 mm/min; ISO 527
	12.41 GPa	1800 ksi	50 mm/min; ASTM D638

Flexural Strength Mechanical Properties	158 MPa Metric	22900 psi English	ASTM D790 Comments
	161 MPa	23400 psi	ISO 178
Flexural Modulus	8.90 GPa	1290 ksi	ISO 178
	10.34 GPa	1500 ksi	ASTM D790
Izod Impact, Notched	0.580 J/cm	1.09 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.67 J/cm	12.5 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	37.0 kJ/m ²	17.6 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J	4.43 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.53	0.53	ASTM D3702 Modified
Coefficient of Friction, Static	0.41	0.41	ASTM D3702 Modified
K (wear) Factor	50.4 x 10 ⁻⁸ mm ³ /N-M	25.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	38.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	70.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	39.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	28.8 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	16.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	29.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	16.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	221 $\text{Å}^\circ\text{C}$	430 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	221 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	430 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	207 $\text{Å}^\circ\text{C}$	405 $\text{Å}^\circ\text{F}$	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
Flammability, UL94	V-0	V-0	UL 94 by SABIC-IP
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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