

SABIC Innovative Plastics LNP LUBRICOMP WX07423H PBT

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

Material Notes:

Health care grade, PTFE and silicone lubricated

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-WX07423H-PBT.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ASTM D792
	1.40 g/cc	0.0506 lb/in ³	ISO 1183
Moisture Absorption	0.0700 %	0.0700 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.026 - 0.028 cm/cm	0.026 - 0.028 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.025 - 0.027 cm/cm	0.025 - 0.027 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Melt Flow	62 g/10 min	62 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 250 Â°C	@Load 11.0 lb, Temperature 482 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	43.0 MPa	6240 psi	Type I, 5 mm/min; ASTM D638
	45.0 MPa	6530 psi	5 mm/min; ISO 527
Tensile Strength, Yield	43.0 MPa	6240 psi	Type I, 5 mm/min; ASTM D638
	45.0 MPa	6530 psi	5 mm/min; ISO 527
Elongation at Break	14 %	14 %	Type I, 5 mm/min; ASTM D638
	18.9 %	18.9 %	5 mm/min; ISO 527
Elongation at Yield	11 %	11 %	Type I, 5 mm/min; ASTM D638
	17.8 %	17.8 %	5 mm/min; ISO 527
Tensile Modulus	2.55 GPa	370 ksi	50 mm/min; ASTM D638
	2.68 GPa	389 ksi	1 mm/min; ISO 527
Flexural Yield Strength	74.0 MPa	10700 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	74.0 MPa Metric	10700 psi English	2 mm/min* ISO 178 Comments
Flexural Modulus	2.30 GPa	334 ksi	1.3 mm/min, 50 mm span; ASTM D790
	2.40 GPa	348 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.300 J/cm	0.562 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.50 J/cm	10.3 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	44.0 kJ/m ²	20.9 ft-lb/in ²	80*10*4; ISO 180/1U
Coefficient of Friction, Dynamic	0.33	0.33	ASTM D3702 Modified
Coefficient of Friction, Static	0.24	0.24	ASTM D3702 Modified
K (wear) Factor	10.1 x 10 ⁻⁸ mm ³ /N-M	5.00 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	55.0 Â°C @Thickness 3.20 mm	131 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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