

Lehmann & Voss LUVOCOM[®] 1850-7853 PBT, with PTFE

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

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Improved friction and wear behaviour. Emergency running property. Isotropic shrinkage characteristics. Control disks, cams, sliding elements and other duty parts. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1850-7853-PBT-with-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.014 - 0.020 cm/cm	0.014 - 0.020 in/in	
Melt Flow	23.8 g/10 min @Load 2.16 kg, Temperature 250 Â°C	23.8 g/10 min @Load 4.76 lb, Temperature 482 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	40.0 MPa	5800 psi	
Elongation at Yield	5.5 %	5.5 %	
	7.2 %	7.2 %	flexural
Modulus of Elasticity	2.00 GPa	290 ksi	
Flexural Strength	58.0 MPa	8410 psi	
Flexural Modulus	1.70 GPa	247 ksi	
Charpy Impact Unnotched	2.50 J/cmÂ²	11.9 ft-lb/inÂ²	edgewise; ISO 179 1eU

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	130 Â°C	266 Â°F	
	150 Â°C	302 Â°F	short term

Electrical Properties	Metric	English	Comments
Insulation Resistance	>= 1.00e+12 ohm	>= 1.00e+12 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	250 Å°C	482 Å°F	mass temp
Nozzle Temperature	250 - 265 Å°C	482 - 509 Å°F	
Zone 1	240 - 260 Å°C	464 - 500 Å°F	
Zone 2	260 - 280 Å°C	500 - 536 Å°F	
Zone 3	250 - 270 Å°C	482 - 518 Å°F	
Mold Temperature	60.0 - 120 Å°C	140 - 248 Å°F	
Drying Temperature	80.0 Å°C @Time 21600 - 28800 sec	176 Å°F @Time 6.00 - 8.00 hour	Vacuum Dryer
	120 Å°C @Time 14400 - 21600 sec	248 Å°F @Time 4.00 - 6.00 hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	black	

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