

Lehmann & Voss LUVOCOM[®] TPI-8257 Thermoplastic polyimide, with carbon fiber

Category : Polymer , Thermoplastic , Polyimide, Thermoplastic , Thermoplastic Polyimide, Carbon Fiber

Material Notes:

Applications: Automotive industry, textile machinery, apparatus- and precision engineering medical- and electrical enineering, aircraft- and aerospace industry.High-strength and high-stiff parts; low coefficient of expansion.Dynamic stressed parts at high movement velocity.Chemical and hydrolysis resistance parts, non flammable.Electrically conductive, suitable for continuous discharging of statically generated electricity.Bearings, sleeves, control disks, gear wheels, pump impellers, gear parts.Depending on degree of cristallinity short use temperature may reach 320[°]C (tempering).Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-TPI-8257-Thermoplastic-polyimide-with-carbon-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23 [°] C/24h
Linear Mold Shrinkage	0.00050 - 0.0020 cm/cm	0.00050 - 0.0020 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	215 MPa	31200 psi	
Elongation at Yield	1.8 %	1.8 %	
	2.4 %	2.4 %	flexural
Modulus of Elasticity	20.0 GPa	2900 ksi	
Flexural Strength	310 MPa	45000 psi	
Flexural Modulus	17.0 GPa	2470 ksi	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	240 [°] C	464 [°] F	
	280 [°] C	536 [°] F	short term
Deflection Temperature at 1.8 MPa (264 psi)	240 - 340 [°] C	464 - 644 [°] F	
Flammability, UL94	V-0	V-0	not recognized by UL

Electrical Properties	Metric	English	Comments
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Surface Resistance Electrical Properties	≤ 10000 ohm Metric	≤ 10000 ohm English	Comments
Insulation Resistance	≤ 100000 ohm	≤ 100000 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	380 Â°C	716 Â°F	mass temp
Nozzle Temperature	390 - 410 Â°C	734 - 770 Â°F	
Zone 1	370 - 390 Â°C	698 - 734 Â°F	
Zone 2	380 - 390 Â°C	716 - 734 Â°F	
Zone 3	380 - 400 Â°C	716 - 752 Â°F	
Mold Temperature	180 - 200 Â°C	356 - 392 Â°F	
Drying Temperature	180 Â°C @Time 18000 - 36000 sec	356 Â°F @Time 5.00 - 10.0 hour	Dehumidifying dryer
	200 Â°C @Time 10800 - 14400 sec	392 Â°F @Time 3.00 - 4.00 hour	or

Descriptive Properties	Value	Comments
Color	natural color (black)	

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