

Lehmann & Voss LUVOCOM® 1104-8327 Polyether ketone, with glass fiber, easy flowing

Category : Polymer , Thermoplastic , Polyketone

Material Notes:

Applications: Automotive industry, mechanical- and precision engineering. Chemical and hydrolysis resistance parts, non flammable. High dimensionally stable precision parts. Low warpage. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1104-8327-Polyether-ketone-with-glass-fiber-easy-flowing.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.0050 - 0.010 cm/cm	0.0050 - 0.010 in/in	
Melt Flow	21.15 g/10 min @Load 10.0 kg, Temperature 380 Â°C	21.15 g/10 min @Load 22.0 lb, Temperature 716 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	120 MPa	17400 psi	
Elongation at Yield	2.4 %	2.4 %	
	3.0 %	3.0 %	flexural
Modulus of Elasticity	7.00 GPa	1020 ksi	
Flexural Strength	170 MPa	24700 psi	
Flexural Modulus	5.50 GPa	798 ksi	
Charpy Impact Unnotched	3.80 J/cmÂ²	18.1 ft-lb/inÂ²	flatwise; ISO 179 1fU
Charpy Impact, Notched	0.700 J/cmÂ²	3.33 ft-lb/inÂ²	ISO 179 1eA
Coefficient of Friction, Dynamic	0.30	0.30	
Coefficient of Friction, Static	0.27	0.27	

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 Âµm/m-Â°C	16.7 Âµin/in-Â°F	DIN 53752
Maximum Service Temperature, Air	255 Â°C	491 Â°F	

Thermal Properties	290 Â°C Metric	554 Â°F English	short term Comments
Vicat Softening Point	>= 320 Â°C	>= 608 Â°F	DIN ISO 306
Flammability, UL94	V-0	V-0	not recognized by UL

Electrical Properties	Metric	English	Comments
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	
Insulation Resistance	>= 1.00e+16 ohm	>= 1.00e+16 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	390 Â°C	734 Â°F	mass temp
Nozzle Temperature	390 - 420 Â°C	734 - 788 Â°F	
Zone 1	370 - 390 Â°C	698 - 734 Â°F	
Zone 2	380 - 420 Â°C	716 - 788 Â°F	
Zone 3	390 - 420 Â°C	734 - 788 Â°F	
Mold Temperature	180 - 230 Â°C	356 - 446 Â°F	
Drying Temperature	140 Â°C	284 Â°F	Dehumidifying dryer
	@Time 14400 - 57600 sec	@Time 4.00 - 16.0 hour	
	150 Â°C	302 Â°F	Air-Circulation Dryer
	@Time 14400 - 28800 sec	@Time 4.00 - 8.00 hour	

Descriptive Properties	Value	Comments
Color	natural color	

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