

Lehmann & Voss LUVOCOM[®] 1105-7731/BL PEEK, with glass fiber and PTFE

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Glass Fiber Filled

Material Notes:

Applications: Automotive industry, textile machinery, medical- and precision engineering, aircraft industry. Chemical and hydrolysis resistance parts, non flammable. Improved friction and wear behaviour. Emergency running property. High dimensionally stable precision parts, high continuous use temperature. Bearings, sleeves, control disks, gear wheels, pump impellers, gear parts. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1105-7731BL-PEEK-with-glass-fiber-and-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.76 g/cc	1.76 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Å°C/24h
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	115 MPa	16700 psi	
Elongation at Yield	1.4 %	1.4 %	
	1.8 %	1.8 %	flexural
Modulus of Elasticity	13.0 GPa	1890 ksi	
Flexural Strength	165 MPa	23900 psi	
Flexural Modulus	11.0 GPa	1600 ksi	
Charpy Impact Unnotched	2.60 J/cm ^Å 2	12.4 ft-lb/in ^Å 2	edgewise; ISO 179 1eU

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	250 Å°C	482 Å°F	
	260 Å°C	500 Å°F	short term
Flammability, UL94	V-0	V-0	not recognized by UL

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

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Nozzle Temperature	360 - 380 Â°C	680 - 716 Â°F	
Zone 1	360 - 370 Â°C	680 - 698 Â°F	
Zone 2	380 - 390 Â°C	716 - 734 Â°F	
Zone 3	390 - 400 Â°C	734 - 752 Â°F	
Mold Temperature	170 - 200 Â°C	338 - 392 Â°F	
Drying Temperature	120 Â°C @Time 21600 - 28800 sec	248 Â°F @Time 6.00 - 8.00 hour	or
	150 Â°C @Time 10800 - 21600 sec	302 Â°F @Time 3.00 - 6.00 hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	signal blue	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China