

Lehmann & Voss LUVOCOM[®] 1105/GF/20/EM/BK PEEK, with glass fiber

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

Material Notes:

Applications: Automotive industry, textile machinery, medical- and precision engineering, aircraft industry.Strong, stiff parts; impact resistance.Dynamic stressed parts at high movement velocity.Chemical and hydrolysis resistance parts, non flammable.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-1105GF20EMBK-PEEK-with-glass-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	1.44 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	
Melt Flow	15 g/10 min @Load 10.0 kg, Temperature 380 Â°C	15 g/10 min @Load 22.0 lb, Temperature 716 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	145 MPa	21000 psi	
Elongation at Yield	3.5 %	3.5 %	
	5.0 %	5.0 %	flexural
Modulus of Elasticity	8.00 GPa	1160 ksi	
Flexural Strength	190 MPa	27600 psi	
Flexural Modulus	7.00 GPa	1020 ksi	
Charpy Impact Unnotched	5.50 J/cm ²	26.2 ft-lb/in ²	flatwise; ISO 179 1fU
	5.00 J/cm ² @Temperature -30.0 Â°C	23.8 ft-lb/in ² @Temperature -22.0 Â°F	ISO 179
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	ISO 179 1eA
	1.20 J/cm ² @Temperature -30.0 Â°C	5.71 ft-lb/in ² @Temperature -22.0 Â°F	ISO 179 eA
Coefficient of Friction, Dynamic	0.30	0.30	

Mechanical Properties	Metric	English	Comments
Coefficient of Friction, Static	0.28	0.28	

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	16.7 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	DIN 53752
Thermal Conductivity	0.350 W/m-K	2.43 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	DIN 52612
Maximum Service Temperature, Air	250 $\text{Å}^\circ\text{C}$	482 $\text{Å}^\circ\text{F}$	
	280 $\text{Å}^\circ\text{C}$	536 $\text{Å}^\circ\text{F}$	short term
Deflection Temperature at 1.8 MPa (264 psi)	285 $\text{Å}^\circ\text{C}$	545 $\text{Å}^\circ\text{F}$	
Vicat Softening Point	320 $\text{Å}^\circ\text{C}$	608 $\text{Å}^\circ\text{F}$	DIN ISO 306
Flammability, UL94	V-0	V-0	not recognized by UL

Electrical Properties	Metric	English	Comments
Insulation Resistance	$\geq 1.00\text{e}+12$ ohm	$\geq 1.00\text{e}+12$ ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	390 $\text{Å}^\circ\text{C}$	734 $\text{Å}^\circ\text{F}$	mass temp
Nozzle Temperature	360 - 380 $\text{Å}^\circ\text{C}$	680 - 716 $\text{Å}^\circ\text{F}$	
Zone 1	360 - 370 $\text{Å}^\circ\text{C}$	680 - 698 $\text{Å}^\circ\text{F}$	
Zone 2	380 - 390 $\text{Å}^\circ\text{C}$	716 - 734 $\text{Å}^\circ\text{F}$	
Zone 3	390 - 400 $\text{Å}^\circ\text{C}$	734 - 752 $\text{Å}^\circ\text{F}$	
Mold Temperature	170 - 200 $\text{Å}^\circ\text{C}$	338 - 392 $\text{Å}^\circ\text{F}$	
Drying Temperature	120 $\text{Å}^\circ\text{C}$ @Time 21600 - 28800 sec	248 $\text{Å}^\circ\text{F}$ @Time 6.00 - 8.00 hour	or
	150 $\text{Å}^\circ\text{C}$ @Time 10800 - 21600 sec	302 $\text{Å}^\circ\text{F}$ @Time 3.00 - 6.00 hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	black	

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