

Lehmann & Voss LUVOCOM® 1105-8422 PEEK, with carbon fiber, PTFE, lubricant modified

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

Material Notes:

Applications: Automotive industry, textile machinery, medical- and precision engineering, aircraft industry.Strong, stiff parts; low thermal coefficient of expansion.Dynamic stressed parts at high movement velocity.Chemical and hydrolysis resistance parts, non flammable.Improved friction and wear behaviour, self-lubricating, for highest tribologic needs.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-1105-8422-PEEK-with-carbon-fiber-PTFE-lubricant-modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 g/cc	1.45 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	
Melt Flow	<= 60 g/10 min @Load 10.0 kg, Temperature 380 Â°C	<= 60 g/10 min @Load 22.0 lb, Temperature 716 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	150 MPa	21800 psi	
Elongation at Yield	2.2 %	2.2 %	
	3.0 %	3.0 %	flexural
Modulus of Elasticity	12.0 GPa	1740 ksi	
Flexural Strength	200 MPa	29000 psi	
Flexural Modulus	9.00 GPa	1310 ksi	
Charpy Impact Unnotched	2.50 J/cmÂ²	11.9 ft-lb/inÂ²	flatwise; ISO 179 1fU
Charpy Impact, Notched	0.500 J/cmÂ²	2.38 ft-lb/inÂ²	ISO 179 1eA

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.450 W/m-K	3.12 BTU-in/hr-ftÂ²- Â°F	DIN 52612
Maximum Service Temperature, Air	250 Â°C	482 Â°F	

Thermal Properties	280 Â°C Metric	536 Â°F English	short term Comments
Deflection Temperature at 1.8 MPa (264 psi)	260 Â°C	500 Â°F	
Flammability, UL94	V-0	V-0	not recognized by UL

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1.00e+7 ohm	<= 1.00e+7 ohm	
Insulation Resistance	<= 1.00e+8 ohm	<= 1.00e+8 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	390 Â°C	734 Â°F	mass temp
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	natural color (black)	

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