

Lehmann & Voss LUVOCOM® 1105-7106 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. 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. 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-1105-7106-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	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	
Melt Flow	15.95 g/10 min @Load 10.0 kg, Temperature 380 Â°C	15.95 g/10 min @Load 22.0 lb, Temperature 716 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	100 MPa	14500 psi	
Elongation at Yield	3.2 %	3.2 %	
	4.2 %	4.2 %	flexural
Modulus of Elasticity	10.0 GPa	1450 ksi	
Flexural Strength	145 MPa	21000 psi	
Flexural Modulus	9.00 GPa	1310 ksi	
Charpy Impact Unnotched	3.00 J/cmÂ²	14.3 ft-lb/inÂ²	edgewise; ISO 179 1eU
Charpy Impact, Notched	0.700 J/cmÂ²	3.33 ft-lb/inÂ²	ISO 179 1eA
Coefficient of Friction, Dynamic	0.12	0.12	
Coefficient of Friction, Static	0.11	0.11	

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 Âµm/m-Â°C	22.2 Âµin/in-Â°F	DIN 53752

Thermal Properties	Metric	English	Comments
Temperature, Air	280 Â°C	536 Â°F	short term
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+9 ohm	<= 1.00e+9 ohm	
Insulation Resistance	<= 1.00e+9 ohm	<= 1.00e+9 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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