

Lehmann & Voss LUVOCOM® 1105-8339 PEEK, lubricant modified

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK)

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. Low warpage, isotropic shrinkage characteristics. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1105-8339-PEEK-lubricant-modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23°C/24h
Linear Mold Shrinkage	0.0090 - 0.015 cm/cm	0.0090 - 0.015 in/in	
Melt Flow	14.3 g/10 min @Load 10.0 kg, Temperature 380 °C	14.3 g/10 min @Load 22.0 lb, Temperature 716 °F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	85.0 MPa	12300 psi	
Elongation at Yield	3.8 %	3.8 %	
	5.0 %	5.0 %	flexural
Modulus of Elasticity	5.00 GPa	725 ksi	
Flexural Strength	120 MPa	17400 psi	
Flexural Modulus	4.00 GPa	580 ksi	
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	edgewise; ISO 179 1eU

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

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

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

Descriptive Properties	Value	Comments
Color	dark grey	

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