

Lehmann & Voss LUVOCOM[®] 1105-8173 PEEK, with PTFE

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, PTFE-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, 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-1105-8173-PEEK-with-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.48 g/cc	1.48 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.0090 - 0.015 cm/cm	0.0090 - 0.015 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	80.0 MPa	11600 psi	
Elongation at Yield	6.0 %	6.0 %	
	7.0 %	7.0 %	flexural
Modulus of Elasticity	3.00 GPa	435 ksi	
Flexural Strength	110 MPa	16000 psi	
Flexural Modulus	2.50 GPa	363 ksi	
Charpy Impact Unnotched	6.50 J/cm ²	30.9 ft-lb/in ²	edgewise; ISO 179 1eU

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	250 Â°C	482 Â°F	
	260 Â°C	500 Â°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
Processing Temperature	390 Â°C	734 Â°F	mass temp

Processing Properties	Metric	English	Comments
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	248 Â°F	or
	@Time 21600 - 28800 sec	@Time 6.00 - 8.00 hour	
	150 Â°C	302 Â°F	Dehumidifying dryer
	@Time 10800 - 21600 sec	@Time 3.00 - 6.00 hour	

Descriptive Properties	Value	Comments
Color	oxide red	

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