

Lehmann & Voss LUVOCOM® 1105/BK0873 PEEK, unreinforced

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

Material Notes:

Applications: Automotive industry, textile machinery, medical- and precision engineering, aircraft industry. High chemical resistance parts, non flammable. Especially suitable for medical parts, superheated steam sterilizable, hydrolysis resistance. Inherent flame resistance. Information provided by Lehmann & Voss & Co. KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1105BK0873-PEEK-unreinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ISO 1183
Water Absorption	0.50 %	0.50 %	23Â°C/24h
Linear Mold Shrinkage	0.010 - 0.016 cm/cm	0.010 - 0.016 in/in	
Melt Flow	42.24 g/10 min @Load 10.0 kg, Temperature 380 Â°C	42.24 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	5.0 %	5.0 %	
	6.0 %	6.0 %	flexural
Modulus of Elasticity	4.00 GPa	580 ksi	
Flexural Strength	145 MPa	21000 psi	
Flexural Modulus	3.50 GPa	508 ksi	
Coefficient of Friction, Static	0.58	0.58	

Thermal Properties	Metric	English	Comments
CTE, linear	47.0 Âµm/m-Â°C	26.1 Âµin/in-Â°F	DIN 53752
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ftÂ²-Â°F	DIN 52612
Maximum Service Temperature, Air	250 Â°C	482 Â°F	
	260 Â°C	500 Â°F	short term
Deflection Temperature at 1.8 MPa	152 Â°C	306 Â°F	

(264 psi) Thermal Properties	Metric	English	Comments
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
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	black	

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