

Lehmann & Voss LUVOCOM[®] 1105-8158 PEEK, with mineral filler

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. High dimensionally stable precision parts. Low warpage. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1105-8158-PEEK-with-mineral-filler.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.38 g/cc	1.38 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.0070 - 0.014 cm/cm	0.0070 - 0.014 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	110 MPa	16000 psi	
Elongation at Yield	3.7 %	3.7 %	
	5.0 %	5.0 %	flexural
Modulus of Elasticity	7.00 GPa	1020 ksi	
Flexural Strength	160 MPa	23200 psi	
Flexural Modulus	6.00 GPa	870 ksi	
Charpy Impact Unnotched	8.00 J/cm ²	38.1 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
Vicat Softening Point	305 Â°C	581 Â°F	DIN ISO 306
Flammability, UL94	V-0	V-0	not recognized by UL

Electrical Properties	Metric	English	Comments
Surface Resistance	>= 1.00e+14 ohm	>= 1.00e+14 ohm	
Insulation Resistance	>= 1.00e+16 ohm	>= 1.00e+16 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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