

Lehmann & Voss LUVOCOM® PEEK CLASSIX 7918 PEEK, unreinforced

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

Material Notes:

Applications: medical engineeringEspecially suitable for medical parts, superheated steam sterilizable, hydrolysis resistanceHigh chemical resistance parts, non flammable.Inherent flame resistance.Suitable for biocompatible application.Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-PEEK-CLASSIX-7918-PEEK-unreinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.65 g/cc	1.65 g/cc	ISO 1183
Water Absorption	<= 0.50 %	<= 0.50 %	23°C/24h
Linear Mold Shrinkage	0.0090 - 0.015 cm/cm	0.0090 - 0.015 in/in	
Melt Flow	45 g/10 min @Load 5.00 kg, Temperature 380 °C	45 g/10 min @Load 11.0 lb, Temperature 716 °F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	80.0 MPa	11600 psi	
Elongation at Yield	2.0 %	2.0 %	
	2.5 %	2.5 %	flexural
Modulus of Elasticity	5.00 GPa	725 ksi	
Flexural Strength	110 MPa	16000 psi	
Flexural Modulus	4.00 GPa	580 ksi	
Charpy Impact Unnotched	1.40 J/cm²	6.66 ft-lb/in²	edgewise; ISO 179 1eU

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	250 °C	482 °F	
	260 °C	500 °F	short term

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

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 - 190 °C	338 - 374 °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	natural color (white)	

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