

Lehmann & Voss LUVOCOM[®] PEEK CLASSIX 7980 PEEK, with carbon fiber

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Carbon Fiber Filled

Material Notes:

Applications: medical engineering High-strength and high-stiff parts; low coefficient of expansion. Dynamic stressed parts at high movement velocity. Chemical and hydrolysis resistance parts, non flammable. Electrically conductive, suitable for continuous discharging of statically generated electricity. 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-7980-PEEK-with-carbon-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.00050 - 0.0020 cm/cm	0.00050 - 0.0020 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	235 MPa	34100 psi	
Elongation at Yield	1.6 %	1.6 %	
	2.0 %	2.0 %	flexural
Modulus of Elasticity	24.0 GPa	3480 ksi	
Flexural Strength	340 MPa	49300 psi	
Flexural Modulus	21.0 GPa	3050 ksi	
Charpy Impact Unnotched	4.50 J/cm ^Â 2	21.4 ft-lb/in ^Â 2	edgewise; ISO 179 1eU
Charpy Impact, Notched	0.800 J/cm ^Â 2	3.81 ft-lb/in ^Â 2	ISO 179 1eA

Thermal Properties	Metric	English	Comments
CTE, linear	9.00 Âµm/m-Â°C	5.00 Âµin/in-Â°F	DIN 53752
Maximum Service Temperature, Air	250 Â°C	482 Â°F	
	260 Â°C	500 Â°F	short term
Deflection Temperature at 1.8 MPa (264 psi)	315 Â°C	599 Â°F	

Electrical Properties	Metric	English	Comments
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Surface Resistance Electrical Properties	≤ 10000 ohm Metric	≤ 10000 ohm English	Comments
Insulation Resistance	≤ 100000 ohm	≤ 100000 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 - 190 Â°C	338 - 374 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	natural color (black)	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China