

Lehmann & Voss LUVOCOM[®] 1105-7041 PEEK, with carbon fiber

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

Material Notes:

Applications: Automotive industry, textile machinery, medical- and precision engineering, aircraft industry. High-strength and high-stiff parts; low coefficient of expansion. Dynamic stressed parts at high movement velocity. High chemical resistance parts, hydrolysis resistance, non flammable. Electrically conductive, suitable for continuous discharging of statically generated electricity. 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-1105-7041-PEEK-with-carbon-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 g/cc	1.45 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.00060 - 0.0030 cm/cm	0.00060 - 0.0030 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	245 MPa	35500 psi	
Elongation at Yield	1.4 %	1.4 %	
	1.8 %	1.8 %	flexural
Modulus of Elasticity	30.0 GPa	4350 ksi	
Flexural Strength	355 MPa	51500 psi	
Flexural Modulus	26.0 GPa	3770 ksi	
Charpy Impact Unnotched	4.80 J/cm ²	22.8 ft-lb/in ²	flatwise; ISO 179 1fU

Thermal Properties	Metric	English	Comments
CTE, linear	7.00 Âµm/m-Â°C	3.89 Âµin/in-Â°F	DIN 53752
Thermal Conductivity	0.650 W/m-K	4.51 BTU-in/hr-ft ² -Â°F	DIN 52612
Maximum Service Temperature, Air	250 Â°C	482 Â°F	
	280 Â°C	536 Â°F	short term
Deflection Temperature at 1.8 MPa (264 psi)	260 Â°C	500 Â°F	
Vicat Softening Point	320 Â°C	608 Â°F	DIN ISO 306

Thermal Properties Flammability, UL94	Metric V0	English	Comments Not recognized by UL
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Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1000 ohm	<= 1000 ohm	
Insulation Resistance	<= 1000 ohm	<= 1000 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	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