

Lehmann & Voss LUVOCOM® 1114-0717 PAEK, with carbon fiber and PTFE

Category : Polymer , Thermoplastic , Polyketone , Polyaryletherketone (PAEK), Carbon Fiber Filled

Material Notes:

Applications: Automotive industry, textile machinery, medical- and precision engineering, aircraft industry. Good friction and wear behaviour especially at increased temperatures. Electrically conductive, suitable for continuous discharging of statically generated electricity. Thermic, mechanic and chemical highly stressed parts. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1114-0717-PAEK-with-carbon-fiber-and-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.51 g/cc	1.51 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23°C/24h
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	180 MPa	26100 psi	
Elongation at Yield	1.5 %	1.5 %	
	2.0 %	2.0 %	flexural
Modulus of Elasticity	17.0 GPa	2470 ksi	
Flexural Strength	240 MPa	34800 psi	
Flexural Modulus	14.0 GPa	2030 ksi	
Charpy Impact Unnotched	2.50 J/cm ²	11.9 ft-lb/in ²	flatwise; ISO 179 1fU
	2.00 J/cm ²	9.52 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179 1eA
Coefficient of Friction, Dynamic	0.19	0.19	
Coefficient of Friction, Static	0.17	0.17	

Thermal Properties	Metric	English	Comments
CTE, linear	5.00 Åµm/m-Å°C	2.78 Åµin/in-Å°F	DIN 53752
Thermal Conductivity	0.600 W/m-K	4.16 BTU-in/hr-ftÅ²-Å°F	DIN 52612

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	305 Â°C	581 Â°F	
Vicat Softening Point	320 Â°C	608 Â°F	DIN ISO 306
Flammability, UL94	V-0	V-0	not recognized by UL

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 10000 ohm	<= 10000 ohm	
Insulation Resistance	<= 100000 ohm	<= 100000 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	390 Â°C	734 Â°F	mass temp
Nozzle Temperature	390 - 420 Â°C	734 - 788 Â°F	
Zone 1	370 - 420 Â°C	698 - 788 Â°F	
Zone 2	380 - 420 Â°C	716 - 788 Â°F	
Zone 3	390 - 420 Â°C	734 - 788 Â°F	
Mold Temperature	160 - 230 Â°C	320 - 446 Â°F	
Drying Temperature	120 Â°C @Time 21600 - 36000 sec	248 Â°F @Time 6.00 - 10.0 hour	or
	150 Â°C @Time 14400 - 21600 sec	302 Â°F @Time 4.00 - 6.00 hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	dark grey	

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