

Lehmann & Voss LUVOCOM® 2205-7123 Blend based on polyaryl ether ketone, with carbon fiber, PTFE, lubricant modified

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

Material Notes:

Applications: High dimensionally stable precision parts, high continuous use temperature. Especially suitable for medical parts, superheated steam sterilizable, hydrolysis resistance. Chemical and hydrolysis resistance parts. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-2205-7123-Blend-based-on-polyaryl-ether-ketone-with-carbon-fiber-PTFE-lubricant-modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.47 g/cc	1.47 g/cc	ISO 1183
Linear Mold Shrinkage	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	
Melt Flow	18 g/10 min @Load 10.0 kg, Temperature 380 Â°C	18 g/10 min @Load 22.0 lb, Temperature 716 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	145 MPa	21000 psi	
Elongation at Yield	1.8 %	1.8 %	
	2.3 %	2.3 %	flexural
Modulus of Elasticity	13.0 GPa	1890 ksi	
Flexural Strength	215 MPa	31200 psi	
Flexural Modulus	11.0 GPa	1600 ksi	
Charpy Impact Unnotched	2.60 J/cmÂ²	12.4 ft-lb/inÂ²	flatwise; ISO 179 1fU
Charpy Impact, Notched	0.600 J/cmÂ²	2.86 ft-lb/inÂ²	ISO 179 1eA
Coefficient of Friction, Dynamic	0.32	0.32	
Coefficient of Friction, Static	0.29	0.29	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	220 Â°C	428 Â°F	
	250 Â°C	482 Â°F	short term

Vicat Softening Point Thermal Properties	280 Â°C Metric	536 Â°F English	DIN ISO 306 Comments
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Electrical Properties	Metric	English	Comments
Insulation Resistance	<= 1.00e+6 ohm	<= 1.00e+6 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	370 - 380 Â°C	698 - 716 Â°F	
Zone 3	380 - 390 Â°C	716 - 734 Â°F	
Mold Temperature	160 - 200 Â°C	320 - 392 Â°F	
Drying Temperature	150 Â°C @Time 10800 - 21600 sec	302 Â°F @Time 3.00 - 6.00 hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	dark grey	

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