

Lehmann & Voss LUVOCOM[®] 1200-7116-1 ABS, with carbon fiber

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

Applications: Office communication.Reduced moment of inertia compared with metal parts.Electrically conductive, suitable for continuous discharging of statically generated electricity.Strong, stiff parts.Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1200-7116-1-ABS-with-carbon-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ISO 1183
Water Absorption	<= 0.30 %	<= 0.30 %	23Â°C/24h
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	
Melt Flow	14 g/10 min @Load 10.0 kg, Temperature 220 Â°C	14 g/10 min @Load 22.0 lb, Temperature 428 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	90.0 MPa	13100 psi	
Elongation at Yield	1.5 %	1.5 %	
	1.9 %	1.9 %	flexural
Modulus of Elasticity	7.00 GPa	1020 ksi	
Flexural Strength	130 MPa	18900 psi	
Flexural Modulus	6.00 GPa	870 ksi	
Charpy Impact Unnotched	1.80 J/cmÂ²	8.57 ft-lb/inÂ²	edgewise; ISO 179 1eU
Charpy Impact, Notched	0.600 J/cmÂ²	2.86 ft-lb/inÂ²	ISO 179 1eA
Coefficient of Friction, Dynamic	0.19	0.19	
Coefficient of Friction, Static	0.21	0.21	

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 Âµm/m-Â°C	22.2 Âµin/in-Â°F	DIN 53752
Thermal Conductivity	0.230 W/m-K	1.60 BTU-in/hr-ftÂ²- Â°F	DIN 52612
Maximum Service Temperature, Air	60.0 Â°C	140 Â°F	

Thermal Properties	Metric 80.0 Å°C	English 176 Å°F	Comments short term
Deflection Temperature at 1.8 MPa (264 psi)	96.0 Å°C	205 Å°F	
Vicat Softening Point	100 Å°C	212 Å°F	DIN ISO 306

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1e+05	<= 1e+05	
Insulation Resistance	100 - 1.00e+6 ohm	100 - 1.00e+6 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	230 - 260 Å°C	446 - 500 Å°F	mass temp
Nozzle Temperature	220 - 250 Å°C	428 - 482 Å°F	
Zone 1	220 - 250 Å°C	428 - 482 Å°F	
Zone 2	220 - 250 Å°C	428 - 482 Å°F	
Zone 3	230 - 260 Å°C	446 - 500 Å°F	
Mold Temperature	40.0 - 80.0 Å°C	104 - 176 Å°F	
Drying Temperature	70.0 - 95.0 Å°C @Time 7200 - 14400 sec	158 - 203 Å°F @Time 2.00 - 4.00 hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	black	

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