

## Lehmann & Voss LUVOCOM<sup>®</sup> 1106-7033 Polyether imide, with carbon fiber

Category : Polymer , Thermoplastic , Polyetherimide (PEI) , Polyetherimide (PEI), Carbon Fiber Filled

### Material Notes:

Applications: High-strength and high-stiff parts; low coefficient of expansion.High continuous use and heat distortion temperature. Non flammable.High dimensionally stable precision parts.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-1106-7033-Polyether-imide-with-carbon-fiber.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1106-7033-Polyether-imide-with-carbon-fiber.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 g/cc	1.45 g/cc	ISO 1183
Water Absorption	<= 0.20 %	<= 0.20 %	23Â°C/24h
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	200 MPa	29000 psi	
Elongation at Yield	1.0 %	1.0 %	
	1.3 %	1.3 %	flexural
Modulus of Elasticity	25.0 GPa	3630 ksi	
Flexural Strength	300 MPa	43500 psi	
Flexural Modulus	21.0 GPa	3050 ksi	
Charpy Impact Unnotched	3.50 J/cm <sup>Â</sup> 2	16.7 ft-lb/in <sup>Â</sup> 2	edgewise; ISO 179 1eU

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	170 Â°C	338 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	200 Â°C	392 Â°F	
Flammability, UL94	V-0	V-0	not recognized by UL

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1.00e+6 ohm	<= 1.00e+6 ohm	
Insulation Resistance	1000 - 1.00e+6 ohm	1000 - 1.00e+6 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	380 Â°C	716 Â°F	mass temp
Nozzle Temperature	350 - 400 Â°C	662 - 752 Â°F	
Zone 1	330 - 350 Â°C	626 - 662 Â°F	
Zone 2	340 - 390 Â°C	644 - 734 Â°F	
Zone 3	350 - 400 Â°C	662 - 752 Â°F	
Mold Temperature	150 - 180 Â°C	302 - 356 Â°F	
Drying Temperature	120 Â°C	248 Â°F	Dehumidifying dryer
	@Time >=28800 sec	@Time >=8.00 hour	
	150 Â°C	302 Â°F	or
	@Time >=14400 sec	@Time >=4.00 hour	

Descriptive Properties	Value	Comments
Color	natural color (black)	

## Contact Songhan Plastic Technology Co.,Ltd.

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