

LUVOCOM® 1700-1401

LEHVOSS Group - Polyphenylene Ether + PS

General Information
Product Description

with carbon fibers and glass fibers; natural color (black)

Main Features

- High dimensionally stable precision parts with low warpage and narrow tolerance range.
- Electrically conductive, suitable for continuous discharging of statically-generated electricity.
- Strong, stiff parts; low thermal coefficient of expansion.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Carbon Fiber • Glass Fiber		
Features	• Electrically Conductive • High Dimensional Stability	• High Stiffness • High Strength	• Low CLTE • Low Warpage
Appearance	• Black		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.16	g/cm ³	ISO 1183
Water Absorption (24 hr, 73°F)	< 0.060	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.09E+6	psi	ISO 527-1/1
Tensile Stress	14500	psi	ISO 527-2
Tensile Strain (Yield)	1.5	%	ISO 527-2/50
Flexural Modulus ²	1.16E+6	psi	ISO 178
Flexural Stress ³	18100	psi	ISO 178
Flexural Strain - (Yield) ⁴	2.0	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
--	4.3	ft·lb/in ²	
-22°F	3.3	ft·lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature ⁵	230	°F	IEC 60216
Vicat Softening Temperature	293	°F	ISO 306/A
CLTE - Flow	2.8E-5	in/in/°F	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+3	ohms	IEC 62631-3-2
Insulation Resistance ⁶	< 1.0E+4	ohms	IEC 62631-3-3

Processing Information

Injection	Nominal Value	Unit
Drying Temperature - Desiccant Dryer, A	203 to 230	°F
Drying Time - Desiccant Dryer, A	1.0 to 2.0	hr
Rear Temperature	518 to 536	°F
Middle Temperature	518 to 572	°F
Front Temperature	554 to 581	°F
Nozzle Temperature	545 to 563	°F
Processing (Melt) Temp	536	°F



Injection Notes

During processing, the moisture level should not exceed 0.01%, otherwise molecular degradation may occur. As the material absorbs water very quickly, the predried material should be fed to the processing immediately. The processing notes provided merely represent a recommendation for general use. Due to the large variety of machines, geometries and volumes of parts, etc., it may be necessary to employ different settings according to the specific application. Please contact us for further information.

Notes

¹ Typical properties: these are not to be construed as specifications.

² 0.079 in/min

³ 0.39 in/min

⁴ 10 mm/min

⁵ 20,000 hr

⁶ strip electrode R25

