

LUVOCOM® 1301-8312

 LEHVOSS Group - *Linear Polyphenylene Sulfide*
General Information
Product Description

unreinforced, thermally conductive modified; dark grey

Main Features

- Strong, stiff parts.
- Low warpage, isotropic shrinkage characteristics.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Features	• High Stiffness	• Low Warpage	
	• High Strength	• Thermally Conductive	
Appearance	• Dark Grey		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.58	g/cm ³	ISO 1183
Water Absorption (24 hr, 73°F)	< 0.050	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.16E+6	psi	ISO 527-1/1
Tensile Stress	5800	psi	ISO 527-2
Tensile Strain (Yield)	0.70	%	ISO 527-2/50
Flexural Modulus ²	1.09E+6	psi	ISO 178
Flexural Stress ³	9430	psi	ISO 178
Flexural Strain - (Yield) ⁴	0.80	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	1.9	ft·lb/in ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature ⁵	428	°F	IEC 60216
Thermal Conductivity ⁶	140	Btu·in/hr/ft ² /°F	ISO 22007
Service Temperature - during lifetime max. 200 hr	464	°F	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+3	ohms	IEC 62631-3-2
Insulation Resistance ⁷	< 1.0E+3	ohms	IEC 62631-3-3

Processing Information

Injection	Nominal Value	Unit
Drying Temperature		
--	122 to 194	°F
Desiccant Dryer, A	212 to 284	°F
Drying Time		
--	> 4.0	hr
Desiccant Dryer, A	2.0 to 4.0	hr
Rear Temperature	572 to 608	°F
Middle Temperature	590 to 626	°F
Front Temperature	608 to 644	°F
Nozzle Temperature	608 to 644	°F
Processing (Melt) Temp	626	°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 in plane; hot disk

⁷ strip electrode R25

