

LUVOCOM® 1100-7721/WT9016

LEHOSS Group - Polyethersulfone

General Information
Product Description

unreinforced; traffic white

Main Features

- High dimensionally stable precision parts, even at elevated temperatures and narrow tolerance range.
- Superheated-steam sterilisable.
- Inherent flame resistance.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Features	• Flame Retardant	• High Heat Resistance	• Steam Sterilizable
	• High Dimensional Stability	• Ignition Resistant	
Appearance	• White		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.48	g/cm ³	ISO 1183
Water Absorption (24 hr, 73°F)	< 0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	435000	psi	ISO 527-1/1
Tensile Stress	12300	psi	ISO 527-2
Tensile Strain (Yield)	5.5	%	ISO 527-2/50
Flexural Modulus ²	290000	psi	ISO 178
Flexural Stress ³	16700	psi	ISO 178
Flexural Strain - (Yield) ⁴	7.3	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.4	ft-lb/in ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	383	°F	ISO 75-2/A
Continuous Use Temperature ⁵	356	°F	IEC 60216
Vicat Softening Temperature	419	°F	ISO 306/A
Service Temperature - during lifetime max. 200 hr	428	°F	
Electrical	Nominal Value	Unit	Test Method
Insulation Resistance ⁶	> 1.0E+12	ohms	IEC 62631-3-3

Processing Information

Injection	Nominal Value	Unit
Drying Temperature - Desiccant Dryer, A	302	°F
Drying Time - Desiccant Dryer, A	3.0 to 5.0	hr
Rear Temperature	671 to 707	°F
Middle Temperature	680 to 716	°F
Front Temperature	662 to 698	°F
Nozzle Temperature	644 to 680	°F
Processing (Melt) Temp	662	°F
Mold Temperature	248 to 392	°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

