LUVOCOM® 1105-0948/YL2

LEHVOSS Group - *Polyetheretherketone*

General Information

Product Description

with glass fibers; green beige

Main Features

- Strong, stiff, impact-resistant parts.
- High dimensionally stable precision parts, high continuous use temperature.
- Dynamically-stressed parts moving at high velocity.
- Chemically- and hydrolytically- resistant parts, non flammable.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber		
Features	• Chemical Resistant • High Dimensional Stability • High Heat Resistance	• High Impact Resistance • High Stiffness • High Strength	• Hydrolytically Stable • Ignition Resistant
Appearance	• Light Green		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.56	g/cm³	ISO 1183
Water Absorption (24 hr, 73°F)	< 0.10	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1.31E+6	psi	ISO 527-1/1
Tensile Stress	19600	psi	ISO 527-2
Tensile Strain (Yield)	2.2	%	ISO 527-2/50
Flexural Modulus [2]	1.02E+6	psi	ISO 178
Flexural Stress [3]	27600	psi	ISO 178
Flexural Strain - (Yield) [4]	3.0	%	ISO 178
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (264 psi, Unannealed)	545	°F	ISO 75-2/A
Continuous Use Temperature [5]	482	°F	IEC 60216
Service Temperature - during lifetime max. 200 hr	536	°F	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Insulation Resistance [6]	> 1.0E+12	ohms	IEC 62631-3-3
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.06 in)	V-0		Internal Method

Processing Information

Injection	Nominal Value	Unit
Drying Temperature		
Desiccant Dryer, A	302	°F
Desiccant Dryer, B	248	°F
Drying Time		
Desiccant Dryer, A	3.0 to 6.0	hr
Desiccant Dryer, B	6.0 to 8.0	hr
Rear Temperature	680 to 698	°F
Middle Temperature	716 to 734	°F
Front Temperature	734 to 752	°F

Nozzle Temperature	680 to 716 °F
Mold Temperature	338 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