

LUVOCOM® 1850-7784

 LEHOSS Group - *Polybutylene Terephthalate*
General Information
Product Description

with glass fibers, glass spheres and PTFE; black

Main Features

- Improved friction and wear behaviour. Optimised for dry running operations.
- High dimensionally stable precision parts with low warpage and narrow tolerance range.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Bead	• Glass Fiber	
Additive	• PTFE Lubricant		
Features	• High Dimensional Stability	• Low Warpage	• Wear Resistant
	• Low Friction	• Lubricated	
Appearance	• Black		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.61	g/cm ³	ISO 1183
Water Absorption (24 hr, 73°F)	< 0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	667000	psi	ISO 527-1/1
Tensile Stress	7980	psi	ISO 527-2
Tensile Strain (Yield)	2.7	%	ISO 527-2/50
Flexural Modulus ²	580000	psi	ISO 178
Flexural Stress ³	12000	psi	ISO 178
Flexural Strain - (Yield) ⁴	3.5	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	12	ft·lb/in ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature ⁵	266	°F	IEC 60216
Service Temperature - during lifetime max.	200	hr	356 °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	248	°F
Vacuum Dryer, B	176	°F
Drying Time		
Desiccant Dryer, A	4.0 to 6.0	hr
Vacuum Dryer, B	6.0 to 8.0	hr
Rear Temperature	464 to 500	°F
Middle Temperature	500 to 536	°F
Front Temperature	482 to 518	°F
Nozzle Temperature	482 to 509	°F
Processing (Melt) Temp	482	°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

