

LUVOCOM® 1850-53032/BK/FR

 LEHOSS Group - *Polybutylene Terephthalate*
General Information
Product Description

with glass fibers, thermally conductive modified and halogen-free flame retardant; black

Main Features

- Thermally conductive.
- Antistatic.

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific
	• Europe • Latin America
	• North America
Filler / Reinforcement	• Glass Fiber
Additive	• Antistatic
	• Flame Retardant
Features	• Antistatic
	• Flame Retardant
	• Halogen Free
	• Thermally Conductive
Appearance	• Black

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.60	g/cm ³	ISO 1183
Molding Shrinkage			DIN 16742
Across Flow	0.60 to 0.80	%	
Flow	0.40 to 0.60	%	
Water Absorption (24 hr, 73°F)	< 0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.89E+6	psi	ISO 527-1/1
Tensile Stress	10200	psi	ISO 527-2
Tensile Strain (Yield)	1.0	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	7.1	ft·lb/in ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	410	°F	ISO 75-2/A
Continuous Use Temperature ²	266	°F	IEC 60216
Thermal Conductivity			ISO 22007
-- ³	5.6	Btu·in/hr/ft ² /°F	
-- ⁴	28	Btu·in/hr/ft ² /°F	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+5	ohms	IEC 62631-3-2
Insulation Resistance ⁵	> 1.0E+5	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	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	473 to 509 °F
Front Temperature	473 to 509 °F
Nozzle Temperature	482 to 509 °F
Processing (Melt) Temp	482 °F
Mold Temperature	176 to 248 °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 20,000 hr
- ³ through plane; hot disk
- ⁴ in plane; hot disk
- ⁵ strip electrode R25

