LUVOCOM® 60-50679/BK

LEHVOSS Group - *Polypropylene Homopolymer*

General Information

Product Description

with glass fibers, thermally conductive modified; black

Main Features
- Impact resistance.
- Highly chemically-resistant parts.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber		
Features	• Chemical Resistant	• Good Impact Resistance	• Thermally Conductive
Appearance	• Black		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.46	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/5.0 kg)	30	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/5.0 kg)	25	cm³/10min	ISO 1133
Molding Shrinkage - Flow	0.30	%	DIN 16742
Water Absorption (24 hr, 73°F)	< 0.30	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1.60E+6	psi	ISO 527-1/1
Tensile Stress	11600	psi	ISO 527-2
Tensile Strain (Yield)	1.9	%	ISO 527-2/50
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	2.9	ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strength	13	ft·lb/in²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (264 psi, Unannealed)	302	°F	ISO 75-2/A
Continuous Use Temperature [2]	212	°F	IEC 60216
Thermal Conductivity [3]	6.9	Btu·in/hr/ft²/°F	ISO 22007
Service Temperature - during lifetime max. 200 hr	248	°F	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+12	ohms	IEC 62631-3-2
Insulation Resistance [4]	> 1.0E+12	ohms	IEC 62631-3-3

Processing Information

Injection	Nominal Value	Unit
Drying Temperature - Desiccant Dryer, A	158 to 203	°F
Drying Time - Desiccant Dryer, A	2.0 to 4.0	hr
Rear Temperature	428 to 482	°F
Middle Temperature	428 to 482	°F
Front Temperature	446 to 500	°F
Nozzle Temperature	428 to 482	°F
Processing (Melt) Temp	446	°F
Mold Temperature	140 to 194	°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] in plane; hot disk

[4] strip electrode R25