LUVOTECH® PP CF30

LEHVOSS Group - *Polypropylene Copolymer*

General Information

Product Description

with carbon fibers; natural color (black)

Main Features

- Electrically conductive, suitable for continuous discharging of statically-generated electricity.
- Low water absorption, for dimensionally-stable, high-precision parts.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Carbon Fiber		
Features	• Electrically Conductive	• Good Dimensional Stability	• Low to No Water Absorption
Appearance	• Black		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm³	ISO 1183
Water Absorption (24 hr, 73°F)	< 0.30	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2.03E+6	psi	ISO 527-1/1
Tensile Stress	18900	psi	ISO 527-2
Tensile Strain (Yield)	2.1	%	ISO 527-2/50
Flexural Modulus [2]	1.89E+6	psi	ISO 178
Flexural Stress [3]	26800	psi	ISO 178
Flexural Strain - (Yield) [4]	2.5	%	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	3.8	ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strength	21	ft·lb/in²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Continuous Use Temperature [5]	212	°F	IEC 60216
Service Temperature - during lifetime max. 200 hr	293	°F	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	< 1.0E+3	ohms	IEC 62631-3-2
Insulation Resistance [6]	< 1.0E+3	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	374 to 428	°F
Middle Temperature	374 to 428	°F
Front Temperature	392 to 446	°F
Nozzle Temperature	392 to 446	°F
Mold Temperature	104 to 176	°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