LUVOTECH® eco PBT GF30 BK

Polybutylene Terephthalate

LEHVOSS Group

Technical Data

Product Description		
with glass fibers; black Main Features • Strong, stiff parts.		
General		
Filler / Reinforcement	• Glass Fiber	
Features	• High Stiffness	• High Strength
Appearance	• Black	

Physical	Nominal Value	Unit	Test Method
Density	1.51	g/cm³	ISO 1183
Water Absorption (24 hr, 23°C)	< 0.30	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	8500	MPa	ISO 527-1/1
Tensile Stress	95.0	MPa	ISO 527-2
Tensile Strain (Yield)	2.5	%	ISO 527-2/50
Flexural Modulus [2]	7000	MPa	ISO 178
Flexural Stress [3]	160	MPa	ISO 178
Flexural Strain - (Yield) [3]	3.5	%	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	5.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength	45	kJ/m²	ISO 179/1eU
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

Injection	Nominal Value	Unit
Drying Temperature		
Desiccant Dryer, A	120	°C
Vacuum Dryer, B	80	°C
Drying Time		
Desiccant Dryer, A	4.0 to 6.0	hr
Vacuum Dryer, B	6.0 to 8.0	hr
Rear Temperature	240 to 260	°C
Middle Temperature	260 to 280	°C
Front Temperature	250 to 270	°C
Nozzle Temperature	250 to 265	°C
Processing (Melt) Temp	250	°C
Mold Temperature	60 to 120	°C

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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.