

LUVOTECH® eco PBT GF30 BK
 LEHOSS Group - *Polybutylene Terephthalate*

General Information

Product Description

with glass fibers; black

Main Features

- Strong, stiff parts.

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber
Features	• High Stiffness • High Strength
Appearance	• Black

 Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.51	g/cm ³	ISO 1183
Water Absorption (24 hr, 73°F)	< 0.30	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.23E+6	psi	ISO 527-1/1
Tensile Stress	13800	psi	ISO 527-2
Tensile Strain (Yield)	2.5	%	ISO 527-2/50
Flexural Modulus ²	1.02E+6	psi	ISO 178
Flexural Stress ³	23200	psi	ISO 178
Flexural Strain - (Yield) ⁴	3.5	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.4	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength	21	ft·lb/in ²	ISO 179/1eU
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+12	ohms	IEC 62631-3-2
Insulation Resistance ⁵	> 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
Mold Temperature	140 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.

