

LUVOTECH® eco PA6 GFM55 eTC

LEHVOSS Group - Polyamide 6

General Information
Product Description

with glass fibers, thermally conductive modified; natural color (black)

Main Features

- Suitable for discharging of statically-generated electricity.
- Thermally conductive.

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.59	g/cm ³	ISO 1183
Molding Shrinkage			DIN 16742
Across Flow	0.40	%	
Flow	0.40	%	
Water Absorption (24 hr, 73°F)	< 0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2.18E+6	psi	ISO 527-1/1
Tensile Stress	13100	psi	ISO 527-2
Tensile Strain (Yield)	0.70	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	4.8	ft·lb/in ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Thermal Conductivity			ISO 22007
-- 2	14	Btu·in/hr/ft ² /°F	
-- 3	120	Btu·in/hr/ft ² /°F	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+5	ohms	IEC 62631-3-2
Insulation Resistance ⁴	< 1.0E+5	ohms	IEC 62631-3-3
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		Internal Method

Processing Information

Injection	Nominal Value	Unit
Drying Temperature		
Desiccant Dryer, A	167	°F
Desiccant Dryer, B	221	°F
Drying Time		
Desiccant Dryer, A	10 to 16	hr
Desiccant Dryer, B	4.0 to 6.0	hr
Rear Temperature	482 to 518	°F
Middle Temperature	518 to 554	°F
Front Temperature	536 to 572	°F



Nozzle Temperature	518 to 536 °F
Mold Temperature	194 to 230 °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 through plane; hot disk

³ in plane; hot disk

⁴ strip electrode R25

