

**LUVOCOM® 3-50425/EC**

LEHVOSS Group - Polyamide 6

**General Information**
**Product Description**

with carbon fibers and resin, electrically conducting; grey

**Main Features**

- Strong, stiff parts.
- Electrically conductive, suitable for continuous discharging of statically-generated electricity.

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Carbon Fiber		
Additive	• Resin		
Features	• Electrically Conductive	• High Stiffness	• High Strength
Appearance	• Grey		

**Properties <sup>1</sup>**

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density	1.29	g/cm <sup>3</sup>	ISO 1183
Water Absorption (24 hr, 73°F)	< 1.3	%	ISO 62
<b>Mechanical</b>			
Tensile Modulus	1.89E+6	psi	ISO 527-1/1
Tensile Stress	18900	psi	ISO 527-2
Tensile Strain (Yield)	2.2	%	ISO 527-2/50
<b>Impact</b>			
Charpy Unnotched Impact Strength	19	ft-lb/in <sup>2</sup>	ISO 179/1eU
<b>Thermal</b>			
Continuous Use Temperature <sup>2</sup>	212	°F	IEC 60216
Service Temperature - during lifetime max. 200 hr	284	°F	
<b>Electrical</b>			
Insulation Resistance <sup>3</sup>	1.0E+6 to 1.0E+8	ohms	IEC 62631-3-3

**Processing Information**

	Nominal Value	Unit
<b>Injection</b>		
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	158 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.



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## Notes

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<sup>1</sup> Typical properties: these are not to be construed as specifications.

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<sup>2</sup> 20,000 hr

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<sup>3</sup> strip electrode R25

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