

**LUVOCOM® 80-8003-3**

LEHVOSS Group - Acetal (POM) Copolymer

## General Information

**Product Description**

with carbon fibers; black

## Main Features

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

**General**

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

 Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm <sup>3</sup>	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	2.0	cm <sup>3</sup> /10min	ISO 1133
Water Absorption (24 hr, 73°F)	< 0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.60E+6	psi	ISO 527-1/1
Tensile Stress	9430	psi	ISO 527-2
Tensile Strain (Yield)	0.80	%	ISO 527-2/50
Flexural Modulus <sup>2</sup>	1.45E+6	psi	ISO 178
Flexural Stress <sup>3</sup>	13100	psi	ISO 178
Flexural Strain - (Yield) <sup>4</sup>	1.1	%	ISO 178
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature <sup>5</sup>	212	°F	IEC 60216
Vicat Softening Temperature	329	°F	ISO 306/A
Service Temperature - during lifetime max. 200 hr	248	°F	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 10	ohms	IEC 62631-3-2
Insulation Resistance <sup>6</sup>	< 10	ohms	IEC 62631-3-3

## Processing Information

Injection	Nominal Value	Unit
Drying Temperature		
Circulation Dryer, B	248	°F
Desiccant Dryer, A	167	°F
Drying Time		
Circulation Dryer, B	2.0 to 4.0	hr
Desiccant Dryer, A	2.0 to 8.0	hr
Rear Temperature	347 to 374	°F
Middle Temperature	365 to 401	°F
Front Temperature	356 to 392	°F
Nozzle Temperature	347 to 392	°F



Processing (Melt) Temp	392 °F
Mold Temperature	176 to 248 °F

### Injection Notes

Avoid melt temperature above 215°C! Ventilation of machinery is recommended.

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

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

<sup>2</sup> 0.079 in/min

<sup>3</sup> 0.39 in/min

<sup>4</sup> 10 mm/min

<sup>5</sup> 20,000 hr

<sup>6</sup> strip electrode R25

