

**LUVOCOM® 1200-7116-1**

 LEHVOSS Group - *Acrylonitrile Butadiene Styrene*
**General Information**
**Product Description**

with carbon fibers; black

**Main Features**

- Electrically conductive, suitable for continuous discharging of statically-generated electricity.
- 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 Stiffness • High Strength
Appearance	• Black

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

Physical	Nominal Value	Unit	Test Method
Density	1.09	g/cm <sup>3</sup>	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	14	cm <sup>3</sup> /10min	ISO 1133
Water Absorption (24 hr, 73°F)	< 0.30	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.16E+6	psi	ISO 527-1/1
Tensile Stress	13100	psi	ISO 527-2
Tensile Strain (Yield)	1.5	%	ISO 527-2/50
Flexural Modulus <sup>2</sup>	870000	psi	ISO 178
Flexural Stress <sup>3</sup>	18900	psi	ISO 178
Flexural Strain - (Yield) <sup>4</sup>	1.9	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.9	ft·lb/in <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength	8.6	ft·lb/in <sup>2</sup>	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	205	°F	ISO 75-2/A
Continuous Use Temperature <sup>5</sup>	140	°F	IEC 60216
Vicat Softening Temperature	212	°F	ISO 306/A
CLTE - Flow	2.2E-5	in/in/°F	ISO 11359-2
Service Temperature - during lifetime max. 200 hr	176	°F	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+4	ohms	IEC 62631-3-2
Insulation Resistance <sup>6</sup>	< 1.0E+3	ohms	IEC 62631-3-3

**Processing Information**

Injection	Nominal Value	Unit
Drying Temperature - Desiccant Dryer, A	158 to 203	°F
Drying Time - Desiccant Dryer, A	2.0 to 4.0	hr
Rear Temperature	428 to 482	°F
Middle Temperature	428 to 482	°F
Front Temperature	446 to 500	°F
Nozzle Temperature	428 to 482	°F
Processing (Melt) Temp	446	°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**

<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

