

**LUVOTECH® eco PEEK CF30**  
 LEHVOSS Group - *Polyetheretherketone*
**General Information**
**Product Description**

with carbon fibers; natural color (black)

**Main Features**

- Very strong and stiff parts; low coefficient of thermal expansion.
- Dynamically-stressed parts moving at high velocity.
- Chemically- and hydrolytically- resistant parts, non flammable.
- 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		
Features	• Chemical Resistant	• High Strength	• Low CLTE
	• Electrically Conductive	• Hydrolytically Stable	
	• High Stiffness	• Ignition Resistant	
Appearance	• Black		

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

Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm <sup>3</sup>	ISO 1183
Water Absorption (24 hr, 73°F)	< 0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3.05E+6	psi	ISO 527-1/1
Tensile Stress	34100	psi	ISO 527-2
Tensile Strain (Yield)	1.8	%	ISO 527-2/50
Flexural Modulus <sup>2</sup>	2.76E+6	psi	ISO 178
Flexural Stress <sup>3</sup>	50800	psi	ISO 178
Flexural Strain - (Yield) <sup>4</sup>	2.1	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	3.3	ft·lb/in <sup>2</sup>	ISO 179/1eA

**Processing Information**

Injection	Nominal Value	Unit
Drying Temperature		
Desiccant Dryer, A	302	°F
Desiccant Dryer, B	248	°F
Drying Time		
Desiccant Dryer, A	3.0 to 6.0	hr
Desiccant Dryer, B	6.0 to 8.0	hr
Rear Temperature	680 to 698	°F
Middle Temperature	716 to 734	°F
Front Temperature	734 to 752	°F
Nozzle Temperature	680 to 716	°F
Processing (Melt) Temp	734	°F
Mold Temperature	338 to 392	°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.

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

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

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

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