

**LUVOTECH® eco PEEK TF20 BK**  
 LEHVOSS Group - *Polyetheretherketone*
**General Information**
**Product Description**

with PTFE; black

**Main Features**

- Improved friction and wear behaviour. Optimised for dry running operations.
- Chemically- and hydrolytically- resistant parts, non flammable.
- Dynamically-stressed parts moving at high velocity.
- High dimensionally stable precision parts.

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• PTFE Lubricant		
Features	• Chemical Resistant	• Ignition Resistant	• Wear Resistant
	• High Dimensional Stability	• Low Friction	
	• Hydrolytically Stable	• Lubricated	
Appearance	• Black		

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

Physical	Nominal Value	Unit	Test Method
Density	1.40	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	464000	psi	ISO 527-1/1
Tensile Stress	10200	psi	ISO 527-2
Tensile Strain (Yield)	7.0	%	ISO 527-2/50
Flexural Modulus <sup>2</sup>	435000	psi	ISO 178
Flexural Stress <sup>3</sup>	16000	psi	ISO 178
Flexural Strain - (Yield) <sup>4</sup>	6.6	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.4	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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