

## Lehmann & Voss LUVOCOM<sup>®</sup> 1850-7431 PBT, with carbon fiber and glass spheres

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Carbon Fiber Filled

### Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Strong, stiff parts. Low warpage. Low water absorption, for dimensional stable precision parts. Parts for electric and electronic industry. Information provided by Lehmann & Voss & Co. KG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lehmann-Voss-LUVOCOM-1850-7431-PBT-with-carbon-fiber-and-glass-spheres.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1850-7431-PBT-with-carbon-fiber-and-glass-spheres.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.53 g/cc	1.53 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23 <sup>°</sup> C/24h
Linear Mold Shrinkage	0.0070 - 0.012 cm/cm	0.0070 - 0.012 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	70.0 MPa	10200 psi	
Elongation at Yield	2.1 %	2.1 %	
	2.6 %	2.6 %	flexural
Modulus of Elasticity	9.00 GPa	1310 ksi	
Flexural Strength	105 MPa	15200 psi	
Flexural Modulus	7.00 GPa	1020 ksi	
Charpy Impact Unnotched	2.50 J/cm <sup>2</sup>	11.9 ft-lb/in <sup>2</sup>	edgewise; ISO 179 1eU
Charpy Impact, Notched	0.400 J/cm <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	ISO 179 1eA

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	120 <sup>°</sup> C	248 <sup>°</sup> F	
	180 <sup>°</sup> C	356 <sup>°</sup> F	short term

Electrical Properties	Metric	English	Comments
Surface Resistance	>= 1.00e+8 ohm	>= 1.00e+8 ohm	
Insulation Resistance	>= 1.00e+8 ohm	>= 1.00e+8 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	250 Â°C	482 Â°F	mass temp
Nozzle Temperature	250 - 265 Â°C	482 - 509 Â°F	
Zone 1	240 - 260 Â°C	464 - 500 Â°F	
Zone 2	260 - 280 Â°C	500 - 536 Â°F	
Zone 3	250 - 270 Â°C	482 - 518 Â°F	
Mold Temperature	60.0 - 120 Â°C	140 - 248 Â°F	
Drying Temperature	80.0 Â°C @Time 21600 - 28800 sec	176 Â°F @Time 6.00 - 8.00 hour	Vacuum Dryer
	120 Â°C @Time 14400 - 21600 sec	248 Â°F @Time 4.00 - 6.00 hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	black	

## Contact Songhan Plastic Technology Co.,Ltd.

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