

Lehmann & Voss LUVOCOM® 1850/CF/10/GF/10/GK/10/GS/5/FR PBT, with carbon fiber, glass fiber, glass spheres and glass flakes, fire protection

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.High dimensionally stable precision parts, even at elevated temperatures and narrow tolerance range.Electrically conductive, suitable for continuous discharging of statically generated electricity.Low warpage, isotropic shrinkage characteristics.Parts for electric and electronic industry, antistatic body partsInformation provided by Lehmann & Voss & Co.KG

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http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1850CF10GF10GK10GS5FR-PBT-with-carbon-fiber-glass-fiber-glass-spheres-and-glass-flakes-fire-protection.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	
Melt Flow	21 g/10 min @Load 10.0 kg, Temperature 250 Â°C	21 g/10 min @Load 22.0 lb, Temperature 482 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	110 MPa	16000 psi	
Elongation at Yield	2.5 %	2.5 %	
	3.5 %	3.5 %	flexural
Modulus of Elasticity	10.0 GPa	1450 ksi	
Flexural Strength	155 MPa	22500 psi	
Flexural Modulus	9.50 GPa	1380 ksi	
Charpy Impact Unnotched	3.50 J/cmÂ²	16.7 ft-lb/inÂ²	flatwise; ISO 179 1fU
	4.00 J/cmÂ² @Temperature -30.0 Â°C	19.0 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179
Coefficient of Friction, Dynamic	0.24	0.24	
Coefficient of Friction, Static	0.19	0.19	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	130 Â°C	266 Â°F	
	160 Â°C	320 Â°F	short term
Vicat Softening Point	215 Â°C	419 Â°F	DIN ISO 306
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1000 ohm	<= 1000 ohm	
Insulation Resistance	<= 10000 ohm	<= 10000 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	176 Â°F	Vacuum Dryer
	@Time 21600 - 28800 sec	@Time 6.00 - 8.00 hour	
	120 Â°C	248 Â°F	Dehumidifying dryer
	@Time 14400 - 21600 sec	@Time 4.00 - 6.00 hour	

Descriptive Properties	Value	Comments
Color	natural color (black)	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China