

Lehmann & Voss LUVOCOM® 1800-8435 PET, with PTFE

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET)

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Improved friction and wear behaviour. Emergency running property. Isotropic shrinkage characteristics. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1800-8435-PET-with-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.61 g/cc	1.61 g/cc	ISO 1183
Water Absorption	<= 0.30 %	<= 0.30 %	23Â°C/24h
Linear Mold Shrinkage	0.015 - 0.020 cm/cm	0.015 - 0.020 in/in	
Melt Flow	<= 16.1 g/10 min @Load 1.20 kg, Temperature 280 Â°C	<= 16.1 g/10 min @Load 2.65 lb, Temperature 536 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	35.0 MPa	5080 psi	
Elongation at Yield	2.4 %	2.4 %	
	3.0 %	3.0 %	flexural
Modulus of Elasticity	2.00 GPa	290 ksi	
Flexural Strength	55.0 MPa	7980 psi	
Flexural Modulus	1.70 GPa	247 ksi	
Charpy Impact Unnotched	1.50 J/cmÂ²	7.14 ft-lb/inÂ²	edgewise; ISO 179 1eU

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	100 Â°C	212 Â°F	
	180 Â°C	356 Â°F	short term

Electrical Properties	Metric	English	Comments
Surface Resistance	>= 1.00e+12 ohm	>= 1.00e+12 ohm	
Insulation Resistance	>= 1.00e+12 ohm	>= 1.00e+12 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	280 Â°C	536 Â°F	mass temp
Nozzle Temperature	265 - 275 Â°C	509 - 527 Â°F	
Zone 1	285 - 295 Â°C	545 - 563 Â°F	
Zone 2	270 - 280 Â°C	518 - 536 Â°F	
Zone 3	265 - 275 Â°C	509 - 527 Â°F	
Mold Temperature	60.0 - 120 Â°C	140 - 248 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
	@Time 21600 - 28800 sec	@Time 6.00 - 8.00 hour	
	120 Â°C	248 Â°F	Dehumidifying dryer
	@Time 7200 - 18000 sec	@Time 2.00 - 5.00 hour	

Descriptive Properties	Value	Comments
Color	natural color (white)	

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