

Lehmann & Voss LUVOCOM[®] 1105/WT106 PEEK, unreinforced

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK)

Material Notes:

Applications: Automotive industry, textile machinery, medical- and precision engineering, aircraft industry. Especially suitable for medical parts, superheated steam sterilizable, hydrolysis resistance. High chemical resistance parts, non flammable. Inherent flame resistance. Information provided by Lehmann & Voss & Co. KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1105WT106-PEEK-unreinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ISO 1183
Water Absorption	<= 0.50 %	<= 0.50 %	23Â°C/24h
Linear Mold Shrinkage	0.010 - 0.016 cm/cm	0.010 - 0.016 in/in	
Melt Flow	13.4 g/10 min @Load 5.00 kg, Temperature 380 Â°C	13.4 g/10 min @Load 11.0 lb, Temperature 716 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	100 MPa	14500 psi	
Elongation at Yield	5.0 %	5.0 %	
	6.0 %	6.0 %	flexural
Modulus of Elasticity	3.70 GPa	537 ksi	
Flexural Strength	140 MPa	20300 psi	
Flexural Modulus	3.00 GPa	435 ksi	
Charpy Impact Unnotched	12.0 J/cmÂ²	57.1 ft-lb/inÂ²	flatwise; ISO 179 1fU
Charpy Impact, Notched	1.00 J/cmÂ²	4.76 ft-lb/inÂ²	ISO 179 1eA

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 Âµm/m-Â°C	27.8 Âµin/in-Â°F	DIN 53752
Thermal Conductivity	0.260 W/m-K	1.80 BTU-in/hr-ftÂ²- Â°F	DIN 52612
Maximum Service Temperature, Air	250 Â°C	482 Â°F	
	260 Â°C	500 Â°F	short term

Thermal Properties (264 psi)	Metric	English	Comments
Flammability, UL94	V-0	V-0	

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	390 Â°C	734 Â°F	mass temp
Nozzle Temperature	360 - 380 Â°C	680 - 716 Â°F	
Zone 1	360 - 370 Â°C	680 - 698 Â°F	
Zone 2	380 - 390 Â°C	716 - 734 Â°F	
Zone 3	390 - 400 Â°C	734 - 752 Â°F	
Mold Temperature	170 - 200 Â°C	338 - 392 Â°F	
Drying Temperature	120 Â°C	248 Â°F	or
	@Time 21600 - 28800 sec	@Time 6.00 - 8.00 hour	
	150 Â°C	302 Â°F	Dehumidifying dryer
	@Time 10800 - 21600 sec	@Time 3.00 - 6.00 hour	

Descriptive Properties	Value	Comments
Color	grey white	

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