

Lehmann & Voss LUVOCOM® 1105-7825 PEEK, with PTFE

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, PTFE-Filled

Material Notes:

Applications: Automotive industry, textile machinery, medical- and precision engineering, aircraft industry. Chemical and hydrolysis resistance parts, non flammable. Improved friction and wear behaviour, self-lubricating, for highest tribologic needs. Bearings, sleeves, control disks, gear wheels, pump impellers, gear parts. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1105-7825-PEEK-with-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23°C/24h
Linear Mold Shrinkage	0.010 - 0.016 cm/cm	0.010 - 0.016 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	80.0 MPa	11600 psi	
Elongation at Yield	7.0 %	7.0 %	
	8.5 %	8.5 %	flexural
Modulus of Elasticity	3.00 GPa	435 ksi	
Flexural Strength	110 MPa	16000 psi	
Flexural Modulus	2.50 GPa	363 ksi	
Charpy Impact Unnotched	8.00 J/cm ²	38.1 ft-lb/in ²	edgewise; ISO 179 1eU
Coefficient of Friction, Dynamic	0.25	0.25	
Coefficient of Friction, Static	0.20	0.20	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	250 °C	482 °F	
	260 °C	500 °F	short term
Vicat Softening Point	280 °C	536 °F	DIN ISO 306
Flammability, UL94	V-0	V-0	not recognized by UL

Electrical Properties	Metric	English	Comments
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Insulation Resistance Electrical Properties	$\geq 1.00e+12$ ohm Metric	$\geq 1.00e+12$ ohm English	Comments
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Processing Properties	Metric	English	Comments
Processing Temperature	390 °C	734 °F	mass temp
Nozzle Temperature	360 - 380 °C	680 - 716 °F	
Zone 1	360 - 370 °C	680 - 698 °F	
Zone 2	380 - 390 °C	716 - 734 °F	
Zone 3	390 - 400 °C	734 - 752 °F	
Mold Temperature	170 - 200 °C	338 - 392 °F	
Drying Temperature	120 °C @Time 21600 - 28800 sec	248 °F @Time 6.00 - 8.00 hour	or
	150 °C @Time 10800 - 21600 sec	302 °F @Time 3.00 - 6.00 hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	oxide red	

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