

Lehmann & Voss LUVOCOM[®] 1105/GN7348 PEEK, unreinforced, laser markable

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

Material Notes:

Applications: Automotive industry, textile machinery, medical- and precision engineering, aircraft industry.High chemical resistance parts, non flammable.Not flammable.Especially suitable for medical parts, superheated steam sterilizable, hydrolysis resistanceInformation provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1105GN7348-PEEK-unreinforced-laser-markable.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 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	100 MPa	14500 psi	
Elongation at Yield	4.5 %	4.5 %	
	5.7 %	5.7 %	flexural
Modulus of Elasticity	4.00 GPa	580 ksi	
Flexural Strength	145 MPa	21000 psi	
Flexural Modulus	3.00 GPa	435 ksi	
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	flatwise; ISO 179 1fU
	4.70 J/cm ²	22.4 ft-lb/in ²	ISO 179
	@Temperature -30.0 [°] C	@Temperature -22.0 [°] F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	250 [°] C	482 [°] F	
	260 [°] C	500 [°] F	short term
Deflection Temperature at 1.8 MPa (264 psi)	156 [°] C	313 [°] F	
Vicat Softening Point	325 [°] C	617 [°] F	DIN ISO 306

Flammability UL 94 Thermal Properties	V-0 Metric	V-0 English	Comments
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Electrical Properties	Metric	English	Comments
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Insulation Resistance	>= 1.00e+12 ohm	>= 1.00e+12 ohm	
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Processing Properties	Metric	English	Comments
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Processing Temperature	390 Â°C	734 Â°F	mass temp
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Nozzle Temperature	360 - 380 Â°C	680 - 716 Â°F	
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Zone 1	360 - 370 Â°C	680 - 698 Â°F	
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Zone 2	380 - 390 Â°C	716 - 734 Â°F	
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Zone 3	390 - 400 Â°C	734 - 752 Â°F	
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Mold Temperature	170 - 200 Â°C	338 - 392 Â°F	
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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
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Color	patina green	
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