

Lehmann & Voss LUVOCOM® 1105/MS/15/TF/15 PEEK, with PTFE, lubricant modified

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

Material Notes:

Applications: Automotive industry, textile machinery, medical- and precision engineering, aircraft industry. Dynamic stressed parts at high movement velocity. Chemical and hydrolysis resistance parts, non flammable. Improved friction and wear behaviour, self-lubricating, for highest tribologic needs. High dimensionally stable precision parts, high continuous use temperature. 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-1105MS15TF15-PEEK-with-PTFE-lubricant-modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.55 g/cc	1.55 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.0070 - 0.012 cm/cm	0.0070 - 0.012 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	80.0 MPa	11600 psi	
Elongation at Yield	5.0 %	5.0 %	
	6.0 %	6.0 %	flexural
Modulus of Elasticity	4.00 GPa	580 ksi	
Flexural Strength	120 MPa	17400 psi	
Flexural Modulus	3.50 GPa	508 ksi	
Charpy Impact Unnotched	6.50 J/cmÂ²	30.9 ft-lb/inÂ²	edgewise; ISO 179 1eU
	6.00 J/cmÂ²	28.6 ft-lb/inÂ²	ISO 179
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Coefficient of Friction, Dynamic	0.090	0.090	
Coefficient of Friction, Static	0.13	0.13	

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 Âµm/m-Â°C	27.8 Âµin/in-Â°F	DIN 53752
	0.250 W/m-K	1.74 BTU-in/hr-ftÂ²-	

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

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 @Time 21600 - 28800 sec	248 Â°F @Time 6.00 - 8.00 hour	or
	150 Â°C @Time 10800 - 21600 sec	302 Â°F @Time 3.00 - 6.00 hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	dark grey	

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