

Lehmann & Voss LUVOCOM[®] 1105/GR/15/TF/15-2 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-1105GR15TF15-2-PEEK-with-PTFE-lubricant-modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.49 g/cc	1.49 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23 [°] C/24h
Linear Mold Shrinkage	0.0070 - 0.010 cm/cm	0.0070 - 0.010 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	70.0 MPa	10200 psi	
Elongation at Yield	4.0 %	4.0 %	
	5.0 %	5.0 %	flexural
Modulus of Elasticity	4.00 GPa	580 ksi	
Flexural Strength	110 MPa	16000 psi	
Flexural Modulus	3.50 GPa	508 ksi	
Charpy Impact Unnotched	5.00 J/cm ²	23.8 ft-lb/in ²	flatwise; ISO 179 1fU
	4.50 J/cm ²	21.4 ft-lb/in ²	ISO 179
	@Temperature -30.0 [°] C	@Temperature -22.0 [°] F	
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179 1eA
	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179 eA
	@Temperature -30.0 [°] C	@Temperature -22.0 [°] F	
Coefficient of Friction, Dynamic	0.040	0.040	
Coefficient of Friction, Static	0.20	0.20	

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	27.8 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	DIN 53752
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	DIN 52612
Maximum Service Temperature, Air	250 $\text{Å}^\circ\text{C}$	482 $\text{Å}^\circ\text{F}$	
	260 $\text{Å}^\circ\text{C}$	500 $\text{Å}^\circ\text{F}$	short term
Vicat Softening Point	280 $\text{Å}^\circ\text{C}$	536 $\text{Å}^\circ\text{F}$	DIN ISO 306
Flammability, UL94	V-0	V-0	not recognized by UL

Electrical Properties	Metric	English	Comments
Insulation Resistance	$\geq 1.00\text{e}+9$ ohm	$\geq 1.00\text{e}+9$ ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	390 $\text{Å}^\circ\text{C}$	734 $\text{Å}^\circ\text{F}$	mass temp
Nozzle Temperature	360 - 380 $\text{Å}^\circ\text{C}$	680 - 716 $\text{Å}^\circ\text{F}$	
Zone 1	360 - 370 $\text{Å}^\circ\text{C}$	680 - 698 $\text{Å}^\circ\text{F}$	
Zone 2	380 - 390 $\text{Å}^\circ\text{C}$	716 - 734 $\text{Å}^\circ\text{F}$	
Zone 3	390 - 400 $\text{Å}^\circ\text{C}$	734 - 752 $\text{Å}^\circ\text{F}$	
Mold Temperature	170 - 200 $\text{Å}^\circ\text{C}$	338 - 392 $\text{Å}^\circ\text{F}$	
Drying Temperature	120 $\text{Å}^\circ\text{C}$ @Time 21600 - 28800 sec	248 $\text{Å}^\circ\text{F}$ @Time 6.00 - 8.00 hour	or
	150 $\text{Å}^\circ\text{C}$ @Time 10800 - 21600 sec	302 $\text{Å}^\circ\text{F}$ @Time 3.00 - 6.00 hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	dark grey	

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