

## Lehmann & Voss LUVOCOM<sup>®</sup> 1105-0699 PEEK, with carbon fiber, PTFE, lubricant modified

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Carbon Fiber Filled

### Material Notes:

Applications: Automotive industry, textile machinery, medical- and precision engineering, aircraft industry. High-strength and high-stiff parts; low coefficient of expansion. Improved friction and wear behaviour. Emergency running property. Electrically conductive, suitable for continuous discharging of statically generated electricity. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lehmann-Voss-LUVOCOM-1105-0699-PEEK-with-carbon-fiber-PTFE-lubricant-modified.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1105-0699-PEEK-with-carbon-fiber-PTFE-lubricant-modified.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23 <sup>°</sup> C/24h
Linear Mold Shrinkage	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	210 MPa	30500 psi	
Elongation at Yield	1.5 %	1.5 %	
	2.0 %	2.0 %	flexural
Modulus of Elasticity	24.0 GPa	3480 ksi	
Flexural Strength	300 MPa	43500 psi	
Flexural Modulus	19.0 GPa	2760 ksi	
Charpy Impact Unnotched	4.50 J/cm <sup>2</sup>	21.4 ft-lb/in <sup>2</sup>	edgewise; ISO 179 1eU
	2.80 J/cm <sup>2</sup>	13.3 ft-lb/in <sup>2</sup>	ISO 179
	@Temperature -30.0 <sup>°</sup> C	@Temperature -22.0 <sup>°</sup> F	
Charpy Impact, Notched	1.00 J/cm <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	ISO 179 1eA
	1.00 J/cm <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	ISO 179 eA
	@Temperature -30.0 <sup>°</sup> C	@Temperature -22.0 <sup>°</sup> F	
Coefficient of Friction, Dynamic	0.15	0.15	
Coefficient of Friction, Static	0.12	0.12	

Thermal Properties	Metric	English	Comments
CTE, linear	9.00 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	5.00 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	DIN 53752
Thermal Conductivity	0.550 W/m-K	3.82 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 $\text{Å}^\circ\text{F}$	
	280 $\text{Å}^\circ\text{C}$	536 $\text{Å}^\circ\text{F}$	short term
Deflection Temperature at 1.8 MPa (264 psi)	255 $\text{Å}^\circ\text{C}$	491 $\text{Å}^\circ\text{F}$	
Vicat Softening Point	310 $\text{Å}^\circ\text{C}$	590 $\text{Å}^\circ\text{F}$	DIN ISO 306
Flammability, UL94	V-0	V-0	not recognized by UL

Electrical Properties	Metric	English	Comments
Surface Resistance	$\leq 10000$ ohm	$\leq 10000$ ohm	
Insulation Resistance	$\leq 100000$ ohm	$\leq 100000$ 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	natural color (black)	

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