

Lehmann & Voss LUVOCOM® 1502-7865/BK2 PPSU, unreinforced

Category : Polymer , Thermoplastic , Polyphenylsulfone (PPSU)

Material Notes:

Applications: Automotive industry, medical- and precision engineering, aircraft industry. Especially suitable for medical parts, superheated steam sterilizable, hydrolysis resistance. High chemical resistance parts. Inherent flame resistance. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1502-7865BK2-PPSU-unreinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ISO 1183
Water Absorption	<= 0.50 %	<= 0.50 %	23Â°C/24h
Linear Mold Shrinkage	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	
Melt Flow	45 g/10 min @Load 10.0 kg, Temperature 380 Â°C	45 g/10 min @Load 22.0 lb, Temperature 716 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	75.0 MPa	10900 psi	
Elongation at Yield	8.0 %	8.0 %	
	11 %	11 %	flexural
Modulus of Elasticity	2.50 GPa	363 ksi	
Flexural Strength	110 MPa	16000 psi	
Flexural Modulus	2.00 GPa	290 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	55.0 Âµm/m-Â°C	30.6 Âµin/in-Â°F	DIN 53752
Maximum Service Temperature, Air	160 Â°C	320 Â°F	
	180 Â°C	356 Â°F	short term
Deflection Temperature at 1.8 MPa (264 psi)	210 Â°C	410 Â°F	
Flammability, UL94	V-0	V-0	not recognized by UL

Electrical Properties	Metric	English	Comments
Surface Resistance	$\geq 1.00 \times 10^{12}$ ohm	$\geq 1.00 \times 10^{12}$ ohm	
Insulation Resistance	$\geq 1.00 \times 10^{12}$ ohm	$\geq 1.00 \times 10^{12}$ ohm	

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	150 - 170 Â°C	302 - 338 Â°F	
Drying Temperature	140 Â°C	284 Â°F	or
	@Time 14400 - 18000 sec	@Time 4.00 - 5.00 hour	
	180 Â°C	356 Â°F	Dehumidifying dryer
	@Time 7200 - 10800 sec	@Time 2.00 - 3.00 hour	

Descriptive Properties	Value	Comments
Color	jet black	

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