

Witcom PEEK 4L1

Polyetheretherketone

Witcom Engineering Plastics B.V.

Message:

Witcom PEEK 4L1 is a Polyetheretherketone (PEEK) product. It is available in Europe.

Characteristics include:

Flame Rated

Lubricated

General Information			
Additive	PTFE Lubricant (20%)		
Features	Lubricated		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183
Molding Shrinkage - Flow (3.00 mm)	1.0 to 1.4	%	ISO 2577
Water Absorption			ISO 62
Saturation, 23°C	0.50	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	< 75.0	MPa	ISO 527-2
Tensile Strain (Break)	> 15	%	ISO 527-2
Flexural Modulus	3100	MPa	ISO 178
Flexural Stress	105	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	6.6	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength	65	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	155	°C	ISO 75-2/A
CLTE - Flow	4.7E-5	cm/cm/°C	ISO 11359-2
RTI Imp (3.00 mm)	180	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	ASTM D257
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Comparative Tracking Index	175	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	V-0		ISO 1210
Glow Wire Flammability Index (1.60 mm)	960	°C	IEC 60695-2-12

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