

Witcom PEEK 6C/3L1-EM

Polyetheretherketone

Witcom Engineering Plastics B.V.

Message:

Witcom PEEK 6C/3L1-EM is a polyetheretherketone (PEEK) product that contains a 30% carbon fiber reinforced material. It can be processed by injection molding and is available in Europe.

- Features include:
- flame retardant/rated flame
 - Conductivity
 - Good processability
 - Lubrication

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 30% filler by weight		
Additive	PTFE lubricant (15%)		
Features	Conductivity		
	Good formability		
	Lubrication		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.49	g/cm³	ISO 1183
Molding Shrinkage - Flow (3.00 mm)	0.10 - 0.30	%	ISO 2577
Water Absorption			ISO 62
Saturated, 23°C	0.30	%	ISO 62
Equilibrium, 23°C, 50% RH	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	< 175	MPa	ISO 527-2
Tensile Strain (Break)	1.0 - 2.0	%	ISO 527-2
Flexural Modulus	18500	MPa	ISO 178
Flexural Stress	255	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	8.0	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength	35	kJ/m²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	315	°C	ISO 75-2/A
CLTE - Flow	1.5E-5	cm/cm/°C	ISO 11359-2
RTI Imp (3.00 mm)	220	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 - 1.0E+5	ohms	ASTM D257
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
Injection	Nominal Value	Unit
Drying Temperature	150 - 180	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.050	%
Processing (Melt) Temp	380 - 410	°C
Mold Temperature	160 - 200	°C
Injection Rate	Fast	
Back Pressure	0.250 - 1.00	MPa
Injection instructions		

Screw speed: 0.1 - 0.2 m/sInjection pressure: Keep to a minimumHold pressure: Keep to a minimum

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