

Witcom PEEK 3C/3L1-EM

Polyetheretherketone

Witcom Engineering Plastics B.V.

Message:

Witcom PEEK 3C/3L1-EM is a polyetheretherketone (PEEK) product that contains a 15% 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, 15% filler by weight		
Additive	PTFE lubricant (15%)		
Features	Conductivity		
	Good formability		
	Lubrication		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.44	g/cm³	ISO 1183
Molding Shrinkage - Flow (3.00 mm)	0.30 - 0.50	%	ISO 2577
Water Absorption			ISO 62
Saturated, 23°C	0.40	%	ISO 62
Equilibrium, 23°C, 50% RH	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	150	MPa	ISO 527-2
Tensile Strain (Break)	1.0 - 3.0	%	ISO 527-2
Flexural Modulus	11500	MPa	ISO 178
Flexural Stress	220	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	7.0	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	2.3E-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+4 - 1.0E+6	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

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

