

Witcom PPS 6C/3L3-L

Linear Polyphenylene Sulfide

Witcom Engineering Plastics B.V.

Message:

Witcom PPS 6C/3L3-L is a linear polyphenylene sulfide product, which 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

Lubrication

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 30% filler by weight		
Additive	PTFE + Silicone Lubricant (15%)		
Features	Conductivity		
	Lubrication		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.50	g/cm ³	ISO 1183
Molding Shrinkage - Flow (3.00 mm)	0.10 - 0.30	%	ISO 2577
Water Absorption			ISO 62
Saturated, 23°C	0.050	%	ISO 62
Equilibrium, 23°C, 50% RH	0.030	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	185	MPa	ISO 527-2
Tensile Strain (Break)	0.50 - 1.5	%	ISO 527-2
Flexural Modulus	22000	MPa	ISO 178
Flexural Stress	265	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	6.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength	35	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	260	°C	ISO 75-2/A
CLTE - Flow	2.2E-5	cm/cm/°C	ISO 11359-2
RTI Imp (3.00 mm)	200	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	10 - 1.0E+3	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 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 - 160	°C
Drying Time	2.0 - 4.0	hr
Suggested Max Moisture	0.040	%
Processing (Melt) Temp	305 - 345	°C
Mold Temperature	140 - 160	°C
Injection Rate	Fast	
Back Pressure	0.00 - 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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