

Witcom PES 6G/3L1

Polyethersulfone

Witcom Engineering Plastics B.V.

Message:

Witcom PES 6G/3L1 is a polyethersulfone (PES) product, which contains a 30% glass fiber reinforced material. It can be processed by injection molding and is available in Europe.
Features include:
flame retardant/rated flame
Lubrication

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	PTFE lubricant (15%)		
Features	Lubrication		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.69	g/cm ³	ISO 1183
Molding Shrinkage - Flow (3.00 mm)	0.20 - 0.40	%	ISO 2577
Water Absorption			ISO 62
Saturated, 23°C	1.4	%	ISO 62
Equilibrium, 23°C, 50% RH	0.50	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	< 125	MPa	ISO 527-2
Tensile Strain (Break)	1.0 - 3.0	%	ISO 527-2
Flexural Modulus	8700	MPa	ISO 178
Flexural Stress	185	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	9.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength	30	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	210	°C	ISO 75-2/A
RTI Imp (3.00 mm)	180	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	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	130 - 160	°C	
Drying Time	4.0 - 6.0	hr	
Suggested Max Moisture	0.020	%	

Processing (Melt) Temp	350 - 390	°C
Mold Temperature	150 - 190	°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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Recommended distributors for this material

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