

Witcom PES BG

Polyethersulfone

Witcom Engineering Plastics B.V.

Message:

Bearing grade

General Information			
Uses	Bearing		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.52	g/cm ³	ISO 1183
Molding Shrinkage - Flow (3.00 mm)	0.20 - 0.40	%	ISO 2577
Water Absorption			ISO 62
Saturated, 23°C	1.6	%	ISO 62
Equilibrium, 23°C, 50% RH	0.50	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	< 110	MPa	ISO 527-2
Tensile Strain (Break)	1.0 - 3.0	%	ISO 527-2
Flexural Modulus	7000	MPa	ISO 178
Flexural Stress	140	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	5.5	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength	16	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
CLTE - Flow	2.4E-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+4 - 1.0E+6	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
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Injection instructions

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

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