

Witcom PEI BG

Polyether Imide

Witcom Engineering Plastics B.V.

Message:

Bearing grade

General Information			
Uses	Bearings		
Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm ³	ISO 1183
Molding Shrinkage - Flow (3.00 mm)	0.20 to 0.40	%	ISO 2577
Water Absorption			ISO 62
Saturation, 23°C	0.90	%	
Equilibrium, 23°C, 50% RH	0.50	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	< 120	MPa	ISO 527-2
Tensile Strain (Break)	1.0 to 3.0	%	ISO 527-2
Flexural Modulus	8000	MPa	ISO 178
Flexural Stress	160	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	5.5	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength	25	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)	170	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+4 to 1.0E+6	ohms	ASTM D257
Volume Resistivity	1.0E+4 to 1.0E+6	ohms · cm	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

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