

NOVADURAN® 5010GT15X

Polybutylene Terephthalate

Mitsubishi Engineering-Plastics Corp

Message:

NOVADURAN® 5010GT15X is a Polybutylene Terephthalate (PBT) material filled with 15% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of NOVADURAN® 5010GT15X are:

Flame Rated

Heat Resistant

General Information			
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Features	Good Thermal Shock Resistance		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.39	g/cm ³	ISO 1183
Molding Shrinkage			
Across Flow : 2.00 mm	1.1	%	
Flow : 2.00 mm	0.60	%	
Water Absorption (Saturation, 23°C)	0.090	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4100	MPa	ISO 527-2
Tensile Stress (Break)	85.0	MPa	ISO 527-2
Tensile Strain (Break)	5.0	%	ISO 527-2
Flexural Modulus	4000	MPa	ISO 178
Flexural Stress	130	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	69	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	206	°C	ISO 75-2/B
1.8 MPa, Unannealed	175	°C	ISO 75-2/A
Melting Temperature	224	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow : -30 to 50°C	7.0E-5	cm/cm/°C	
Flow : -30 to 120°C	7.0E-5	cm/cm/°C	
Flow : 50 to 120°C	7.0E-5	cm/cm/°C	
Transverse : -30 to 50°C	8.0E-5	cm/cm/°C	
Transverse : -30 to 120°C	9.0E-5	cm/cm/°C	

Transverse : 50 to 120°C	1.0E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	3.0E+15	ohms	IEC 60093
Volume Resistivity	4.0E+15	ohms·cm	IEC 60093
Electric Strength			IEC 60243-1
1.00 mm	24	kV/mm	
2.00 mm	21	kV/mm	
Relative Permittivity (1 MHz)	3.20		IEC 60250
Dissipation Factor (1 MHz)	0.020		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	5.0 to 8.0	hr	
Rear Temperature	240	°C	
Middle Temperature	245	°C	
Front Temperature	255	°C	
Nozzle Temperature	255	°C	
Mold Temperature	80.0 to 100	°C	
Injection Pressure	20.0 to 150	MPa	
Screw Speed	80 to 120	rpm	

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