

NOVADURAN® 5010G30TZ

Polybutylene Terephthalate

Mitsubishi Engineering-Plastics Corp

Message:

NOVADURAN® 5010G30TZ is a Polybutylene Terephthalate (PBT) material filled with 30% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of NOVADURAN® 5010G30TZ are:

Flame Rated

Heat Resistant

General Information			
UL YellowCard	E53664-101440195		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Good Thermal Shock Resistance		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.50	g/cm ³	ISO 1183
Molding Shrinkage			
Across Flow : 2.00 mm	1.0	%	
Flow : 2.00 mm	0.40	%	
Water Absorption (Saturation, 23°C)	0.080	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8700	MPa	ISO 527-2
Tensile Stress (Break)	115	MPa	ISO 527-2
Tensile Strain (Break)	4.0	%	ISO 527-2
Flexural Modulus	8000	MPa	ISO 178
Flexural Stress	180	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)	64	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	208	°C	ISO 75-2/B
1.8 MPa, Unannealed	178	°C	ISO 75-2/A
Melting Temperature	224	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow : -30 to 50°C	4.0E-5	cm/cm/°C	
Flow : -30 to 120°C	4.0E-5	cm/cm/°C	
Flow : 50 to 120°C	4.0E-5	cm/cm/°C	
Transverse : -30 to 50°C	5.0E-5	cm/cm/°C	

Transverse : -30 to 120°C	6.0E-5	cm/cm/°C	
Transverse : 50 to 120°C	7.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	3.0E+15	ohms·cm	IEC 60093
Electric Strength			IEC 60243-1
1.00 mm	30	kV/mm	
2.00 mm	24	kV/mm	
Relative Permittivity (1 MHz)	3.40		IEC 60250
Dissipation Factor (1 MHz)	0.016		IEC 60250
Comparative Tracking Index (CTI)	PLC 1		UL 746
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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