

NOVADURAN® 5010G30

Polybutylene Terephthalate

Mitsubishi Engineering-Plastics Corp

Message:

NOVADURAN® 5010G30 is a Polybutylene Terephthalate (PBT) material filled with 30% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding. Primary attribute of NOVADURAN® 5010G30: Flame Rated.

Typical application of NOVADURAN® 5010G30: Automotive

General Information			
UL YellowCard	E53664-243528		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.53	g/cm ³	ISO 1183
Molding Shrinkage			
Across Flow : 2.00 mm	1.2	%	
Flow : 2.00 mm	0.40	%	
Water Absorption (Saturation, 23°C)	0.070	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9500	MPa	ISO 527-2
Tensile Stress (Break)	140	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus	9000	MPa	ISO 178
Flexural Stress	215	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	59	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	> 220	°C	ISO 75-2/B
1.8 MPa, Unannealed	207	°C	ISO 75-2/A
Melting Temperature	224	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow : -30 to 50°C	3.0E-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	6.0E-5	cm/cm/°C	
Transverse : -30 to 120°C	9.0E-5	cm/cm/°C	
Transverse : 50 to 120°C	1.3E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method

Surface Resistivity	5.0E+16	ohms	IEC 60093
Volume Resistivity	2.0E+16	ohms·cm	IEC 60093
Electric Strength			IEC 60243-1
1.00 mm	27	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 (0.840 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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