

NOVADURAN® 5010G45

Polybutylene Terephthalate

Mitsubishi Engineering-Plastics Corp

Message:

NOVADURAN® 5010G45 is a Polybutylene Terephthalate (PBT) material filled with 45% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding. Primary attribute of NOVADURAN® 5010G45: Flame Rated.

General Information			
UL YellowCard	E53664-101273117		
Filler / Reinforcement	Glass Fiber,45% Filler by Weight		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.67	g/cm ³	ISO 1183
Molding Shrinkage			
Across Flow : 2.00 mm	0.90	%	
Flow : 2.00 mm	0.40	%	
Water Absorption (Saturation, 23°C)	0.060	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	15000	MPa	ISO 527-2
Tensile Stress (Break)	165	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus	14500	MPa	ISO 178
Flexural Stress	260	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	14	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	60	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	209	°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	3.0E-5	cm/cm/°C	
Flow : 50 to 120°C	3.0E-5	cm/cm/°C	
Transverse : -30 to 50°C	4.0E-5	cm/cm/°C	
Transverse : -30 to 120°C	5.0E-5	cm/cm/°C	
Transverse : 50 to 120°C	6.0E-5	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	28	kV/mm	
2.00 mm	25	kV/mm	
Relative Permittivity (1 MHz)	3.40		IEC 60250
Dissipation Factor (1 MHz)	0.016		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.750 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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