

NOVADURAN® 5010N6-3X

Polybutylene Terephthalate

Mitsubishi Engineering-Plastics Corp

Message:

NOVADURAN® 5010N6-3X is a Polybutylene Terephthalate (PBT) material. It is available in Asia Pacific, Europe, or North America for injection molding. Important attributes of NOVADURAN® 5010N6-3X are:

Flame Rated

Flame Retardant

General Information			
UL YellowCard	E53664-499604		
Features	Flame Retardant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.43	g/cm ³	ISO 1183
Molding Shrinkage			
Across Flow : 2.00 mm	1.8	%	
Flow : 2.00 mm	1.9	%	
Water Absorption (Saturation, 23°C)	0.080	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2800	MPa	ISO 527-2
Tensile Stress (Yield)	57.0	MPa	ISO 527-2
Tensile Strain (Yield)	4.0	%	ISO 527-2
Nominal Tensile Strain at Break	20	%	ISO 527-2
Flexural Modulus	2500	MPa	ISO 178
Flexural Stress	90.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	120	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	165	°C	ISO 75-2/B
1.8 MPa, Unannealed	77.0	°C	ISO 75-2/A
Melting Temperature	224	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow : -30 to 50°C	8.0E-5	cm/cm/°C	
Flow : -30 to 120°C	1.2E-4	cm/cm/°C	
Flow : 50 to 120°C	1.5E-4	cm/cm/°C	
Transverse : -30 to 50°C	9.0E-5	cm/cm/°C	
Transverse : -30 to 120°C	1.2E-4	cm/cm/°C	

Transverse : 50 to 120°C	1.5E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Electric Strength			IEC 60243-1
1.00 mm	21	kV/mm	
2.00 mm	18	kV/mm	
Relative Permittivity (1 MHz)	3.20		IEC 60250
Dissipation Factor (1 MHz)	0.020		IEC 60250
Comparative Tracking Index (CTI)	PLC 1		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.710 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	5.0 to 8.0	hr	
Rear Temperature	235	°C	
Middle Temperature	240	°C	
Front Temperature	250	°C	
Nozzle Temperature	245	°C	
Mold Temperature	60.0 to 80.0	°C	
Injection Pressure	20.0 to 150	MPa	
Screw Speed	80 to 150	rpm	

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