

NOVADURAN® SEF-515X

Polybutylene Terephthalate

Mitsubishi Engineering-Plastics Corp

Message:

NOVADURAN® SEF-515X 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® SEF-515X are:

Flame Rated

Flame Retardant

Halogen Free

General Information			
UL YellowCard	E53664-100403197		
Filler / Reinforcement	Glass Fiber, 15% Filler by Weight		
Additive	Flame Retardant		
Features	Bromine Free		
	Flame Retardant		
	Low to No Outgassing		
	Tracking Resistant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.44	g/cm ³	ISO 1183
Molding Shrinkage			
Across Flow : 2.00 mm	1.2	%	
Flow : 2.00 mm	0.50	%	
Water Absorption (Saturation, 23°C)	0.070	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6400	MPa	ISO 527-2
Tensile Stress (Break)	80.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus	6300	MPa	ISO 178
Flexural Stress	123	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	40	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	208	°C	ISO 75-2/A
Melting Temperature	224	°C	ISO 11357-3

CLTE			ISO 11359-2
Flow : -30 to 50°C	2.0E-5	cm/cm/°C	
Flow : -30 to 120°C	2.0E-5	cm/cm/°C	
Flow : 50 to 120°C	2.0E-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	1.2E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.0E+16	ohms	IEC 60093
Volume Resistivity	4.0E+15	ohms·cm	IEC 60093
Electric Strength (2.00 mm)	27	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.60		IEC 60250
Dissipation Factor (1 MHz)	0.015		IEC 60250
Comparative Tracking Index (CTI)	PLC 0		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.750 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	5.0 to 8.0	hr	
Rear Temperature	250	°C	
Middle Temperature	260	°C	
Front Temperature	265	°C	
Nozzle Temperature	265	°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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