

NOVADURAN® SEF-500T

Polybutylene Terephthalate

Mitsubishi Engineering-Plastics Corp

Message:

NOVADURAN® SEF-500T is a Polybutylene Terephthalate (PBT) material. It is available in Asia Pacific, Europe, or North America for injection molding. Important attributes of NOVADURAN® SEF-500T are:

Flame Rated

Flame Retardant

Halogen Free

General Information			
UL YellowCard	E53664-100125289		
Features	Bromine Free		
	Flame Retardant		
	Tracking Resistant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.31	g/cm ³	ISO 1183
Molding Shrinkage			
Across Flow : 2.00 mm	1.8	%	
Flow : 2.00 mm	2.2	%	
Water Absorption (Saturation, 23°C)	0.080	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2700	MPa	ISO 527-2
Tensile Stress (Yield)	35.0	MPa	ISO 527-2
Nominal Tensile Strain at Break	40	%	ISO 527-2
Flexural Modulus	2200	MPa	ISO 178
Flexural Stress	62.0	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)	62	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	180	°C	ISO 75-2/B
1.8 MPa, Unannealed	86.0	°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 (2.00 mm)	22	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.50		IEC 60250
Dissipation Factor (1 MHz)	0.019		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	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	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

