

General Information			
Product Description			
PBT copolymer Un-reinforced / HB, Extrusion, Very soft			
General			
Features	• Impact Copolymer		
Uses	• Automotive Applications • Automotive Electronics	• Electrical/Electronic Applications • General Purpose	
ASTM & ISO Properties ¹			
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	33	cm³/10min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow : 2.00 mm	2.0	%	
Flow : 2.00 mm	2.2	%	
Water Absorption (Saturation, 23°C)	0.40	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	420	MPa	ISO 527-1/1
Tensile Stress (Yield)	21.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	21	%	
Break	> 200	%	
Flexural Modulus ²	360	MPa	ISO 178
Flexural Stress ²	22.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	30	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Annealed	139	°C	ISO 75-2/B
1.8 MPa, Annealed	74.0	°C	ISO 75-2/A
Melting Temperature	219	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow : -30 to 35°C	1.4E-4	cm/cm/°C	
Flow : -30 to 120°C	1.5E-4	cm/cm/°C	
Flow : 35 to 120°C	1.7E-4	cm/cm/°C	
Transverse : -30 to 35°C	1.4E-4	cm/cm/°C	
Transverse : -30 to 120°C	1.5E-4	cm/cm/°C	
Transverse : 35 to 120°C	1.7E-4	cm/cm/°C	
RTI Elec (1.5 mm)	75.0	°C	UL 746B



NOVADURAN™ 5510S

Mitsubishi Engineering-Plastics Corp - Polybutylene Terephthalate

Thermal	Nominal Value	Unit	Test Method
RTI Imp (1.5 mm)	75.0	°C	UL 746B
RTI Str (1.5 mm)	75.0	°C	UL 746B
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	22	kV/mm	
2.00 mm	17	kV/mm	
Dielectric Constant (1 MHz)	3.20		IEC 60250
Dissipation Factor (1 MHz)	0.020		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.5 mm)	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature - Hot Air Dryer	120	°C
Drying Time - Hot Air Dryer	5.0 to 8.0	hr
Rear Temperature	240 to 260	°C
Middle Temperature	240 to 260	°C
Front Temperature	240 to 260	°C
Nozzle Temperature	260	°C
Mold Temperature	60 to 100	°C
Injection Pressure	20.0 to 150	MPa
Injection Rate	Moderate-Fast	
Screw Speed	80 to 150	rpm

