

NOVADURAN™ 5710N2

Mitsubishi Engineering-Plastics Corp - Polybutylene Terephthalate

General Information

Product Description

Un-reinforced / Flame Retardant V-0 / Toughness, Low Warpage

General

Features	- Flame Retardant - Good Toughness - Low Warpage
Uses	- Automotive Applications - Electrical/Electronic Applications - Automotive Electronics - General Purpose

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	7.0	cm ³ /10min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow : 2.00 mm	1.1	%	
Flow : 2.00 mm	1.1	%	
Water Absorption (Saturation, 23°C)	0.080	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ISO 527-1/1
Tensile Stress (Yield)	60.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	4.0	%	
Break	20	%	
Flexural Modulus ²	2350	MPa	ISO 178
Flexural Stress ²	85.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	200	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Annealed	135	°C	ISO 75-2/B
1.8 MPa, Annealed	115	°C	ISO 75-2/A
Melting Temperature	224	°C	ISO 11357-3
RTI Elec (0.75 mm)	75.0	°C	UL 746B
RTI Imp (0.75 mm)	75.0	°C	UL 746B
RTI Str (0.75 mm)	75.0	°C	UL 746B
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Electric Strength (1.00 mm)	21	kV/mm	IEC 60243-1
Comparative Tracking Index (CTI)	PLC 2		UL 746A

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Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.75 mm		V-0	
1.5 mm		V-0	
3.0 mm		V-0	

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 120	rpm	

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 mm/min

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