

NOVADURAN™ 5010R7U3X

Mitsubishi Engineering-Plastics Corp - Polybutylene Terephthalate

General Information

Product Description

Un-reinforced / HB equiv. per in-house testing, Light stabilized, High reflectivity

General

Features	- High Reflectivity - Light Stabilized
Uses	- Automotive Applications - Automotive Electronics - Electrical/Electronic Applications - General Purpose

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/5.0 kg)	31	cm ³ /10min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow : 2.00 mm	2.1	%	
Flow : 2.00 mm	2.2	%	
Water Absorption (Saturation, 23°C)	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2700	MPa	ISO 527-1/1
Tensile Stress (Yield)	60.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	18	%	ISO 527-2/50
Flexural Modulus ²	2720	MPa	ISO 178
Flexural Stress ²	87.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Annealed	175	°C	ISO 75-2/B
1.8 MPa, Annealed	70.0	°C	ISO 75-2/A
Melting Temperature	224	°C	ISO 11357-3

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

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Injection	Nominal Value	Unit
Injection Rate	Moderate-Fast	
Screw Speed	80 to 150	rpm

Notes

- ¹ Typical properties: these are not to be construed as specifications.
- ² 2.0 mm/min