

NOVADURAN™ 5010N6-8S3

Mitsubishi Engineering-Plastics Corp - Polybutylene Terephthalate

General Information

Product Description

Un-reinforced / Soft, V-0 (0.75mm, BK & GY) V-2(0.75mm, natural color)

General

Features	- Flame Retardant - Soft
Uses	- Automotive Applications - Automotive Electronics - Electrical/Electronic Applications - General Purpose

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	87	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	25.0	MPa	ISO 527-2/50
Nominal Tensile Strain at Break	330	%	ISO 527-2/50
Flexural Modulus ²	590	MPa	ISO 178
Flexural Stress ²	27.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.6	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	219	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (CTI)	PLC 2		UL 746A
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.75 mm, Natural color	V-2		
0.75 mm, Black, Gray	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	250 to 270	°C
Middle Temperature	250 to 270	°C
Front Temperature	250 to 270	°C
Nozzle Temperature	270	°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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