

NOVADURAN 5010R7U3X

PBT

Mitsubishi Engineering-Plastics Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	31	cm ³ /10min	ISO 1133
Temperature	250	°C	-
Load	5	kg	-
Molding shrinkage, parallel	2.2	%	ISO 294-4, 2577
Molding shrinkage, normal	2.1	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2700	MPa	ISO 527
Yield stress	60	MPa	ISO 527
Yield strain	18	%	ISO 527
Flexural modulus, 23°C	2720	MPa	ISO 178
Flexural strength	87	MPa	ISO 178
Charpy notched impact strength, +23°C	4	kJ/m ²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	224	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	70	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	175	°C	ISO 75-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10

Other properties	Value	Unit	Test Standard
Water absorption	0.1	%	Sim. to ISO 62
Density	1400	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	5 - 8	h	-
Mold temperature	60 - 100	°C	-
Zone 1	240 - 260	°C	-
Zone 2	240 - 260	°C	-
Zone 3	240 - 260	°C	-
Nozzle temperature	260	°C	-
Screw speed	80 - 150	rpm	-
Injection pressure	20 - 150	MPa	-

Characteristics**Processing**

Injection Molding

Special Characteristics

Light stabilized or stable to light

Applications

Automotive, Electrical and Electronical, General Purpose

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa