

Reny NXG5050

PAMXD6-GF50

Mitsubishi Engineering-Plastics Corporation

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	3.7 / *	cm ³ /10min	ISO 1133
Temperature	275 / *	°C	-
Load	2.16 / *	kg	-
Melt flow index, MFI	4.5	g/10min	ISO 1133
Temperature	275	°C	-
Load	2.16	kg	-
Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6 / *	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	18800 / 17400	MPa	ISO 527
Stress at break	205 / 191	MPa	ISO 527
Strain at break	1.5 / 1.7	%	ISO 527
Flexural modulus, 23°C	16800 / 16400	MPa	ISO 178
Flexural strength	338 / 304	MPa	ISO 178
Charpy impact strength, +23°C	68 / 58	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	9.6 / 9.6	kJ/m ²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	221 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	235 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	10 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	40 / *	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	-
Yellow Card available	yes / *	-	-

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	- / 5	-	IEC 62631-2-1
Dissipation factor, 1MHz	- / 130	E-4	IEC 62631-2-1
Volume resistivity	1E14 / 4E12	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 2E14	Ohm	IEC 62631-3-2
Electric strength	26 / 23	kV/mm	IEC 60243-1
Comparative tracking index	200 / 250	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Humidity absorption	0.9 / *	%	Sim. to ISO 62
Density	1620 / -	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	3	h	-
Mold temperature	120 - 140	°C	-
Zone 1	265	°C	-
Zone 2	270	°C	-
Zone 3	275	°C	-
Nozzle temperature	275	°C	-
Screw speed	60 - 150	rpm	-
Injection pressure	20 - 150	MPa	-

Characteristics

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Processing

Injection Molding

Special Characteristics

High impact or impact modified

Applications

Automotive, Electrical and Electronical, General Purpose

Regional Availability

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