

**Reny NXG5945S**

PAMXD6-GF45

Mitsubishi Engineering-Plastics Corporation

<b>Processing/Physical Characteristics</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melt volume-flow rate, MVR	<b>8.46 / *</b>	cm <sup>3</sup> /10min	ISO 1133
Temperature	<b>280 / *</b>	°C	-
Load	<b>5 / *</b>	kg	-
Melt flow index, MFI	<b>13</b>	g/10min	ISO 1133
Temperature	<b>280</b>	°C	-
Load	<b>5</b>	kg	-
Molding shrinkage, parallel	<b>0.2 / *</b>	%	ISO 294-4, 2577
Molding shrinkage, normal	<b>0.5 / *</b>	%	ISO 294-4, 2577

<b>Mechanical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	<b>16000 / 15400</b>	MPa	ISO 527
Stress at break	<b>208 / 202</b>	MPa	ISO 527
Strain at break	<b>2 / 2.2</b>	%	ISO 527
Flexural modulus, 23°C	<b>14300 / 14000</b>	MPa	ISO 178
Flexural strength	<b>349 / 315</b>	MPa	ISO 178
Charpy impact strength, +23°C	<b>90 / 77</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	<b>15 / 14</b>	kJ/m <sup>2</sup>	ISO 179/1eA

<b>Thermal properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	<b>232 / *</b>	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	<b>11 / *</b>	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	<b>56 / *</b>	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	<b>HB / *</b>	class	IEC 60695-11-10
Thickness tested	<b>1.6 / *</b>	mm	-
Yellow Card available	<b>yes / *</b>	-	-

<b>Electrical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Relative permittivity, 1MHz	<b>4.1 / 4.2</b>	-	IEC 62631-2-1
Dissipation factor, 1MHz	<b>70 / 120</b>	E-4	IEC 62631-2-1

<b>Other properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
Humidity absorption	<b>0.73 / *</b>	%	Sim. to ISO 62
Density	<b>1520 / -</b>	kg/m <sup>3</sup>	ISO 1183

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>120</b>	°C	-
Pre-drying - Time	<b>3</b>	h	-
Mold temperature	<b>120 - 140</b>	°C	-
Zone 1	<b>270</b>	°C	-
Zone 2	<b>275</b>	°C	-
Zone 3	<b>280</b>	°C	-
Nozzle temperature	<b>280</b>	°C	-
Screw speed	<b>60 - 150</b>	rpm	-
Injection pressure	<b>20 - 150</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Applications**

Automotive, Electrical and Electronical, General Purpose

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**Special Characteristics**

High impact or impact modified

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