

Reny PG-1050A

PAMXD6-GF50

Mitsubishi Engineering-Plastics Corporation

| Processing/Physical Characteristics | dry / cond | Unit | Test Standard |
|--|-------------------|------------------------|----------------------|
| ISO Data | | | |
| Melt volume-flow rate, MVR | 2.8 / * | cm ³ /10min | ISO 1133 |
| Temperature | 275 / * | °C | - |
| Load | 2.16 / * | kg | - |
| Melt flow index, MFI | 5.5 | g/10min | ISO 1133 |
| Temperature | 275 | °C | - |
| Load | 2.16 | kg | - |
| Molding shrinkage, parallel | 0.3 / * | % | ISO 294-4, 2577 |
| Molding shrinkage, normal | 0.7 / * | % | ISO 294-4, 2577 |

| Mechanical properties | dry / cond | Unit | Test Standard |
|---------------------------------------|-------------------|-------------------|----------------------|
| ISO Data | | | |
| Tensile Modulus | 19100 / 18700 | MPa | ISO 527 |
| Stress at break | 215 / 205 | MPa | ISO 527 |
| Strain at break | 1.7 / 2 | % | ISO 527 |
| Flexural modulus, 23°C | 17400 / 17100 | MPa | ISO 178 |
| Flexural strength | 363 / 326 | MPa | ISO 178 |
| Charpy impact strength, +23°C | 59 / 55 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength, +23°C | 17 / 18 | kJ/m ² | ISO 179/1eA |

| Thermal properties | dry / cond | Unit | Test Standard |
|---|-------------------|-------------|----------------------|
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 224 / * | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | 236 / * | °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 | 50 / * | E-6/K | ISO 11359-1/-2 |
| Burning behav. at thickness h | HB / * | class | IEC 60695-11-10 |

| Electrical properties | dry / cond | Unit | Test Standard |
|------------------------------|-------------------|-------------|----------------------|
| ISO Data | | | |
| Relative permittivity, 1MHz | - / 4 | - | IEC 62631-2-1 |
| Dissipation factor, 1MHz | - / 120 | E-4 | IEC 62631-2-1 |
| Volume resistivity | 2E14 / 8E12 | Ohm*m | IEC 62631-3-1 |
| Surface resistivity | * / 1E14 | Ohm | IEC 62631-3-2 |
| Electric strength | 29 / 28 | kV/mm | IEC 60243-1 |
| Comparative tracking index | 600 / 600 | - | IEC 60112 |

| Other properties | dry / cond | Unit | Test Standard |
|-------------------------|-------------------|-------------------|----------------------|
| Humidity absorption | 0.8 / * | % | Sim. to ISO 62 |
| Density | 1570 / - | 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