

NOVADURAN 5710N1TX

PBT

Mitsubishi Engineering-Plastics Corporation

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|-------|------------------------|-----------------|
| ISO Data | | | |
| Melt volume-flow rate, MVR | 12 | cm ³ /10min | ISO 1133 |
| Temperature | 250 | °C | - |
| Load | 5 | kg | - |
| Molding shrinkage, parallel | 0.9 | % | ISO 294-4, 2577 |
| Molding shrinkage, normal | 0.9 | % | ISO 294-4, 2577 |

| Mechanical properties | Value | Unit | Test Standard |
|---------------------------------------|-------|-------------------|---------------|
| ISO Data | | | |
| Tensile Modulus | 2300 | MPa | ISO 527 |
| Yield stress | 55 | MPa | ISO 527 |
| Strain at break | 90 | % | ISO 527 |
| Flexural modulus, 23°C | 2400 | MPa | ISO 178 |
| Flexural strength | 84 | MPa | ISO 178 |
| Charpy impact strength, +23°C | N | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength, +23°C | 54 | 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 | 106 | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | 128 | °C | ISO 75-1/-2 |
| Burning behav. at 1.5 mm nom. thickn. | V-0 | class | IEC 60695-11-10 |
| Thickness tested | 1.5 | mm | - |
| Yellow Card available | yes | - | - |
| Burning behav. at thickness h | V-0 | class | IEC 60695-11-10 |
| Thickness tested | 3.0 | mm | - |
| Yellow Card available | yes | - | - |
| Burning behav. 5V at thickness h | 5VA | class | IEC 60695-11-20 |
| Thickness tested | 3.0 | mm | - |
| Yellow Card available | yes | - | - |

| Electrical properties | Value | Unit | Test Standard |
|----------------------------|-------|-------|---------------|
| ISO Data | | | |
| Volume resistivity | 1E14 | Ohm*m | IEC 62631-3-1 |
| Surface resistivity | 1E16 | Ohm | IEC 62631-3-2 |
| Comparative tracking index | 600 | - | IEC 60112 |

| Other properties | Value | Unit | Test Standard |
|------------------|-------|-------------------|----------------|
| Water absorption | 0.07 | % | Sim. to ISO 62 |
| Density | 1320 | 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 - 120 | rpm | - |
| Injection pressure | 20 - 150 | MPa | - |

Characteristics

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Processing

Injection Molding

Special Characteristics

Flame retardant, High impact or impact modified, U.V. stabilized or stable to weather

Features

Low Warpage

Applications

Automotive, Electrical and Electronical, General Purpose

Regional Availability

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