

NOVADURAN 5810G40

(PBT+PS)-GF40

Mitsubishi Engineering-Plastics Corporation

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|-------|------------------------|-----------------|
| ISO Data | | | |
| Melt volume-flow rate, MVR | 26 | cm ³ /10min | ISO 1133 |
| Temperature | 250 | °C | - |
| Load | 5 | kg | - |
| Molding shrinkage, parallel | 0.3 | % | ISO 294-4, 2577 |
| Molding shrinkage, normal | 0.6 | % | ISO 294-4, 2577 |

| Mechanical properties | Value | Unit | Test Standard |
|---------------------------------------|-------|-------------------|---------------|
| ISO Data | | | |
| Tensile Modulus | 13000 | MPa | ISO 527 |
| Stress at break | 130 | MPa | ISO 527 |
| Strain at break | 1 | % | ISO 527 |
| Flexural modulus, 23°C | 12000 | MPa | ISO 178 |
| Flexural strength | 195 | MPa | ISO 178 |
| Charpy impact strength, +23°C | 60 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength, +23°C | 11 | 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 | 190 | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | 218 | °C | ISO 75-1/-2 |
| Coeff. of linear therm. expansion, parallel | 100 | E-6/K | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion, normal | 90 | E-6/K | ISO 11359-1/-2 |
| Burning behav. at thickness h | HB | class | IEC 60695-11-10 |

| Electrical properties | Value | Unit | Test Standard |
|-----------------------------|-------|-------|---------------|
| ISO Data | | | |
| Relative permittivity, 1MHz | 3.2 | - | IEC 62631-2-1 |
| Dissipation factor, 1MHz | 170 | E-4 | IEC 62631-2-1 |
| Volume resistivity | 1E14 | Ohm*m | IEC 62631-3-1 |
| Surface resistivity | 1E16 | Ohm | IEC 62631-3-2 |
| Electric strength | 40 | kV/mm | IEC 60243-1 |

| Other properties | Value | Unit | Test Standard |
|------------------|-------|-------------------|----------------|
| Water absorption | 0.08 | % | Sim. to ISO 62 |
| Density | 1530 | 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 | 250 - 270 | °C | - |
| Zone 2 | 250 - 270 | °C | - |
| Zone 3 | 250 - 270 | °C | - |
| Nozzle temperature | 270 | °C | - |
| Screw speed | 80 - 120 | rpm | - |
| Injection pressure | 20 - 150 | MPa | - |

Characteristics**Processing**

Injection Molding

Applications

Automotive, Electrical and Electronical, General Purpose

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Features

Low Warpage

Regional Availability

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