

## NOVADURAN™ 5308G30 HX3

Mitsubishi Engineering-Plastics Corp - Polybutylene Terephthalate + PET

### General Information

#### Product Description

PBT alloy GF-reinforced / HB, Good surface finish, GF 30%

#### General

|                        |                                                                                                                                                                                        |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Filler / Reinforcement | • Glass Fiber, 30% Filler by Weight                                                                                                                                                    |
| Features               | • Good Surface Finish                                                                                                                                                                  |
| Uses                   | <ul style="list-style-type: none"> <li>• Automotive Applications</li> <li>• Automotive Electronics</li> <li>• Electrical/Electronic Applications</li> <li>• General Purpose</li> </ul> |

### ASTM & ISO Properties <sup>1</sup>

| Physical                                    | Nominal Value | Unit                   | Test Method |
|---------------------------------------------|---------------|------------------------|-------------|
| Density                                     | 1.52          | g/cm <sup>3</sup>      | ISO 1183    |
| Melt Volume-Flow Rate (MVR) (280°C/2.16 kg) | 39            | cm <sup>3</sup> /10min | ISO 1133    |
| Water Absorption (Saturation, 23°C)         | 0.070         | %                      | ISO 62      |
| Mechanical                                  | Nominal Value | Unit                   | Test Method |
| Tensile Modulus                             | 9200          | MPa                    | ISO 527-1/1 |
| Tensile Stress (Break)                      | 115           | MPa                    | ISO 527-2/5 |
| Tensile Strain (Break)                      | 2.0           | %                      | ISO 527-2/5 |
| Flexural Modulus <sup>2</sup>               | 9000          | MPa                    | ISO 178     |
| Flexural Stress <sup>2</sup>                | 200           | MPa                    | ISO 178     |
| Impact                                      | Nominal Value | Unit                   | Test Method |
| Charpy Notched Impact Strength (23°C)       | 8.0           | kJ/m <sup>2</sup>      | ISO 179     |
| Charpy Unnotched Impact Strength (23°C)     | 48            | kJ/m <sup>2</sup>      | ISO 179     |
| Thermal                                     | Nominal Value | Unit                   | Test Method |
| Deflection Temperature Under Load           |               |                        |             |
| 0.45 MPa, Annealed                          | 218           | °C                     | ISO 75-2/B  |
| 1.8 MPa, Annealed                           | 180           | °C                     | ISO 75-2/A  |
| RTI Elec (0.75 mm)                          | 75.0          | °C                     | UL 746B     |
| RTI Imp (0.75 mm)                           | 75.0          | °C                     | UL 746B     |
| RTI Str (0.75 mm)                           | 75.0          | °C                     | UL 746B     |
| Electrical                                  | Nominal Value | Unit                   | Test Method |
| Surface Resistivity                         | 1.0E+15       | ohms                   | IEC 60093   |
| Volume Resistivity                          | 1.0E+16       | ohms·cm                | IEC 60093   |
| Electric Strength                           |               |                        | IEC 60243-1 |
| 1.00 mm                                     | 27            | kV/mm                  |             |
| 2.00 mm                                     | 23            | kV/mm                  |             |
| Dielectric Constant (1 MHz)                 | 3.30          |                        | IEC 60250   |
| Dissipation Factor (1 MHz)                  | 0.014         |                        | IEC 60250   |
| Flammability                                | Nominal Value | Unit                   | Test Method |
| Flame Rating (0.75 mm)                      | HB            |                        | UL 94       |

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## Processing Information

| Injection                          | Nominal Value | Unit |
|------------------------------------|---------------|------|
| Drying Temperature - Hot Air Dryer | 120           | °C   |
| Drying Time - Hot Air Dryer        | 5.0 to 8.0    | hr   |
| Rear Temperature                   | 250 to 270    | °C   |
| Middle Temperature                 | 250 to 270    | °C   |
| Front Temperature                  | 250 to 270    | °C   |
| Nozzle Temperature                 | 270           | °C   |
| Mold Temperature                   | 60 to 100     | °C   |
| Injection Pressure                 | 20.0 to 150   | MPa  |
| Injection Rate                     | Moderate-Fast |      |
| Screw Speed                        | 80 to 120     | rpm  |

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 2.0 mm/min

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