

# HONES® PBT GF10

Polybutylene Terephthalate

Guangdong Shunde Hones Polymer Material Co., Ltd.

## Message:

Technology characteristics: 10% Glass fiber reinforced

| General Information                                     |                                  |                   |             |
|---------------------------------------------------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement                                  | Glass Fiber,10% Filler by Weight |                   |             |
| Physical                                                | Nominal Value                    | Unit              | Test Method |
| Specific Gravity                                        | 1.52                             | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow                                | 0.60 to 1.1                      | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)                          | 0.090                            | %                 | ASTM D570   |
| Mechanical                                              | Nominal Value                    | Unit              | Test Method |
| Tensile Strength                                        | 76.0                             | MPa               | ASTM D638   |
| Tensile Elongation (Break)                              | 4.0                              | %                 | ASTM D638   |
| Flexural Modulus                                        | 4000                             | MPa               | ASTM D790   |
| Flexural Strength                                       | 110                              | MPa               | ASTM D790   |
| Impact                                                  | Nominal Value                    | Unit              | Test Method |
| Charpy Notched Impact Strength                          | 6.0                              | kJ/m <sup>2</sup> | ISO 179     |
| Charpy Unnotched Impact Strength                        | 30                               | kJ/m <sup>2</sup> | ISO 179     |
| Unnotched Izod Impact (3.20 mm)                         | 40                               | J/m               | ASTM D256   |
| Thermal                                                 | Nominal Value                    | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 185                              | °C                | ASTM D648   |
| CLTE - Flow (-30 to 30°C)                               | 4.1E-5                           | cm/cm/°C          | ASTM D696   |
| Electrical                                              | Nominal Value                    | Unit              | Test Method |
| Volume Resistivity                                      | 1.0E+16                          | ohms·cm           | ASTM D257   |
| Dielectric Strength (2.00 mm)                           | 20                               | kV/mm             | ASTM D149   |
| Dielectric Constant (1 MHz)                             | 3.20                             |                   | ASTM D150   |
| Flammability                                            | Nominal Value                    | Unit              | Test Method |
| Flame Rating (3.20 mm)                                  | V-0                              |                   | UL 94       |

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