

# Toraycon® 5107G

Polybutylene Terephthalate

Toray Resin Company

## Message:

Toraycon® 5107G is a Polybutylene Terephthalate (PBT) product filled with 30% glass fiber. It is available in Asia Pacific, Europe, or North America. Characteristics include:  
Flame Rated  
Impact Resistant

| General Information                               |                                  |                   |                 |
|---------------------------------------------------|----------------------------------|-------------------|-----------------|
| Filler / Reinforcement                            | Glass Fiber,30% Filler by Weight |                   |                 |
| Features                                          | High Impact Resistance           |                   |                 |
| Part Marking Code                                 | >PBT-I-GF30<                     |                   |                 |
| Physical                                          | Nominal Value                    | Unit              | Test Method     |
| Density (23°C)                                    | 1.49                             | g/cm <sup>3</sup> | ISO 1183        |
| Molding Shrinkage                                 |                                  |                   | Internal Method |
| Across Flow : 3.00 mm <sup>1</sup>                | 1.0                              | %                 |                 |
| Flow : 3.00 mm <sup>2</sup>                       | 0.40                             | %                 |                 |
| Water Absorption (23°C, 24 hr)                    | 0.080                            | %                 | ISO 62          |
| Mechanical                                        | Nominal Value                    | Unit              | Test Method     |
| Tensile Modulus (23°C)                            | 8400                             | MPa               | ISO 527-2       |
| Tensile Stress (23°C)                             | 125                              | MPa               | ISO 527-2       |
| Tensile Strain (Break, 23°C)                      | 3.0                              | %                 | ISO 527-2       |
| Flexural Modulus (23°C)                           | 7900                             | MPa               | ISO 178         |
| Flexural Stress (23°C)                            | 195                              | MPa               | ISO 178         |
| Impact                                            | Nominal Value                    | Unit              | Test Method     |
| Charpy Notched Impact Strength (23°C)             | 12                               | kJ/m <sup>2</sup> | ISO 179         |
| Thermal                                           | Nominal Value                    | Unit              | Test Method     |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 208                              | °C                | ISO 75-2/A      |
| CLTE - Flow (-30 to 100°C)                        | 4.2E-5                           | cm/cm/°C          | ISO 11359-2     |
| Flammability                                      | Nominal Value                    |                   | Test Method     |
| Flame Rating                                      | HB                               |                   | UL 94           |
| Additional Information                            | Nominal Value                    | Unit              | Test Method     |
| Bar Flow Length <sup>3</sup> (250°C, 1.00 mm)     | 7.00                             | cm                | Internal Method |
| NOTE                                              |                                  |                   |                 |
| 1.                                                | 80x80x3                          |                   |                 |
| 2.                                                | 80x80x3mm                        |                   |                 |
| 3.                                                | 93 MPa                           |                   |                 |

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