# Toraycon™ 5107G
PBT

TECHNICAL DATA

**Product Description**

High impact, Heat cycle resistance, GF30%

| | | |
|---|---|---|
| **Uses** | • Automotive Applications | • Automotive Electronics |
| **Processing Method** | • Injection Molding | |
| **ISO Designation** | • >PBT-I-GF30< | |
| **Type** | • PBT/Reinforced | |

## ASTM & ISO Properties

| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
|---|---|---|---|
| Density (23°C) | 1.49 | g/cm³ | ISO 1183 |
| Molding Shrinkage [1] | | | Internal Method |
| Across Flow : 3.00 mm | 1.00 | % | |
| Flow : 3.00 mm | 0.40 | % | |
| Water Absorption [2] (24 hr, 23°C) | 0.080 | % | ISO 62 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus (23°C) | 8400 | MPa | ISO 527-1 |
| Tensile Strength (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) | 12.0 | kJ/m² | ISO 179 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Deflection Temperature Under Load | | | ISO 75-2/A |
| 1.8 MPa, Unannealed | 208 | °C | |
| Coefficient of Linear Thermal Expansion (-30 to 100°C) | 4.2 | cm^-5/cm/°C | ISO 11359-2 |
| **Flammability** | **Nominal Value** | **Unit** | **Test Method** |
| Flame Rating [3] (Equivalent) | HB | | Internal Method |
| **Additional Information** | **Nominal Value** | **Unit** | **Test Method** |
| Bar Flow Length [4] (250°C, 1.00 mm) | 70 | mm | Internal Method |

## Notes

[1] 80x80x3mm

[2] in water

[3] UL94

[4] 93MPa