

# Toraycon® EC44G-30

Polybutylene Terephthalate

Toray Resin Company

## Message:

Toraycon® EC44G-30 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

Flame Retardant

Halogen Free

| General Information                   |                                  |                   |                 |
|---------------------------------------|----------------------------------|-------------------|-----------------|
| UL YellowCard                         | E41797-233519                    |                   |                 |
| Filler / Reinforcement                | Glass Fiber,30% Filler by Weight |                   |                 |
| Additive                              | Flame Retardant                  |                   |                 |
| Features                              | Flame Retardant                  |                   |                 |
|                                       | Halogen Free                     |                   |                 |
|                                       |                                  |                   |                 |
| Part Marking Code                     | >PBT-P-GF30 FR(40)<              |                   |                 |
| Physical                              | Nominal Value                    | Unit              | Test Method     |
| Density (23°C)                        | 1.65                             | g/cm <sup>3</sup> | ISO 1183        |
| Molding Shrinkage                     |                                  |                   | Internal Method |
| Across Flow : 3.00 mm <sup>1</sup>    | 0.80                             | %                 |                 |
| Flow : 3.00 mm <sup>2</sup>           | 0.20                             | %                 |                 |
| Water Absorption (23°C, 24 hr)        | 0.070                            | %                 | ISO 62          |
| Mechanical                            | Nominal Value                    | Unit              | Test Method     |
| Tensile Modulus (23°C)                | 11500                            | MPa               | ISO 527-2       |
| Tensile Stress (23°C)                 | 110                              | MPa               | ISO 527-2       |
| Tensile Strain (Break, 23°C)          | 1.3                              | %                 | ISO 527-2       |
| Flexural Modulus (23°C)               | 10800                            | MPa               | ISO 178         |
| Flexural Stress (23°C)                | 160                              | MPa               | ISO 178         |
| Impact                                | Nominal Value                    | Unit              | Test Method     |
| Charpy Notched Impact Strength (23°C) | 7.0                              | kJ/m <sup>2</sup> | ISO 179         |
| Thermal                               | Nominal Value                    | Unit              | Test Method     |
| Heat Deflection Temperature           |                                  |                   |                 |
| 0.45 MPa, Unannealed                  | 220                              | °C                | ISO 75-2/B      |
| 1.8 MPa, Unannealed                   | 205                              | °C                | ISO 75-2/A      |
| CLTE - Flow (-30 to 100°C)            | 4.0E-5                           | cm/cm/°C          | ISO 11359-2     |
| Electrical                            | Nominal Value                    | Unit              | Test Method     |
| Volume Resistivity                    | 1.3E+17                          | ohms · cm         | IEC 60093       |
| Electric Strength                     | 26                               | kV/mm             | IEC 60243-1     |
| Arc Resistance <sup>3</sup>           | 200                              | sec               | IEC 60950       |

|                                               |                    |      |                 |
|-----------------------------------------------|--------------------|------|-----------------|
| Comparative Tracking Index (CTI)              | PLC 0              |      | UL 746          |
| Flammability                                  | Nominal Value      | Unit | Test Method     |
| Flame Rating (0.794 mm)                       | V-0                |      | UL 94           |
| Additional Information                        | Nominal Value      | Unit | Test Method     |
| Bar Flow Length <sup>4</sup> (250°C, 1.00 mm) | 110                | mm   | Internal Method |
| NOTE                                          |                    |      |                 |
| 1.                                            | 80x80x3            |      |                 |
| 2.                                            | 80x80x3mm          |      |                 |
| 3.                                            | Tungsten Electrode |      |                 |
| 4.                                            | 93 MPa             |      |                 |

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