

# Tufpet PBT G2630

Polybutylene Terephthalate  
Mitsubishi Rayon America Inc.

Message:

Tufpet PBT G2630 is a Polybutylene Terephthalate (PBT) material filled with 30% glass fiber and 10% mineral. It is available in North America for injection molding.

Important attributes of Tufpet PBT G2630 are:

- Flame Rated
- Flame Retardant
- Chemical Resistant
- Good Dimensional Stability
- Good Processability

| General Information        |                                  |                   |             |
|----------------------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement     | Glass Fiber,30% Filler by Weight |                   |             |
|                            | Mineral,10% Filler by Weight     |                   |             |
| Additive                   | Flame Retardant                  |                   |             |
| Features                   | Flame Retardant                  |                   |             |
|                            | Good Chemical Resistance         |                   |             |
|                            | Good Dimensional Stability       |                   |             |
|                            | Good Electrical Properties       |                   |             |
|                            | Good Moldability                 |                   |             |
|                            | High Gloss                       |                   |             |
|                            | High Heat Resistance             |                   |             |
|                            | Low to No Water Absorption       |                   |             |
|                            | Low Warpage                      |                   |             |
|                            |                                  |                   |             |
| Forms                      | Pellets                          |                   |             |
| Processing Method          | Injection Molding                |                   |             |
| Physical                   | Nominal Value                    | Unit              | Test Method |
| Specific Gravity           | 1.66                             | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow   | 0.20 to 0.80                     | %                 | ASTM D955   |
| Mechanical                 | Nominal Value                    | Unit              | Test Method |
| Tensile Strength           | 108                              | MPa               | ASTM D638   |
| Tensile Elongation (Break) | 2.5                              | %                 | ASTM D638   |
| Flexural Modulus           | 9320                             | MPa               | ASTM D790   |
| Flexural Strength          | 172                              | MPa               | ASTM D790   |
| Impact                     | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact        | 69                               | J/m               | ASTM D256   |
| Unnotched Izod Impact      | 470                              | J/m               | ASTM D256   |
| Thermal                    | Nominal Value                    | Unit              | Test Method |

|                                   |               |         |             |
|-----------------------------------|---------------|---------|-------------|
| Deflection Temperature Under Load |               |         | ASTM D648   |
| 0.45 MPa, Unannealed              | 210           | °C      |             |
| 1.8 MPa, Unannealed               | 186           | °C      |             |
| RTI Elec                          |               |         | UL 746      |
| 0.780 mm                          | 75.0          | °C      |             |
| 1.50 mm                           | 75.0          | °C      |             |
| 3.12 mm                           | 75.0          | °C      |             |
| RTI Imp                           |               |         | UL 746      |
| 0.780 mm                          | 75.0          | °C      |             |
| 1.50 mm                           | 75.0          | °C      |             |
| 3.12 mm                           | 75.0          | °C      |             |
| RTI Str                           |               |         | UL 746      |
| 0.780 mm                          | 75.0          | °C      |             |
| 1.50 mm                           | 75.0          | °C      |             |
| 3.12 mm                           | 75.0          | °C      |             |
| Electrical                        | Nominal Value | Unit    | Test Method |
| Volume Resistivity                | 1.0E+18       | ohms·cm | ASTM D257   |
| Dielectric Constant (1 MHz)       | 3.80          |         | ASTM D150   |
| Dissipation Factor (1 MHz)        | 0.020         |         | ASTM D150   |
| Arc Resistance                    | 49.0          | sec     | ASTM D495   |
| Comparative Tracking Index (CTI)  | 220           | V       | UL 746      |
| Flammability                      | Nominal Value | Unit    | Test Method |
| Flame Rating                      |               |         | UL 94       |
| 0.780 mm                          | V-0           |         |             |
| 1.50 mm                           | V-0           |         |             |
| 3.12 mm                           | V-0           |         |             |
| Injection                         | Nominal Value | Unit    |             |
| Drying Temperature                | 140           | °C      |             |
| Drying Time                       | 2.0           | hr      |             |
| Rear Temperature                  | 230 to 260    | °C      |             |
| Middle Temperature                | 230 to 260    | °C      |             |
| Front Temperature                 | 230 to 260    | °C      |             |
| Mold Temperature                  | 40.0 to 100   | °C      |             |
| Injection Pressure                | 81.4          | MPa     |             |
| Screw Speed                       | 80            | rpm     |             |

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