

# OmniTech™ PBT FR GF15 BK1000

Polybutylene Terephthalate

OMNI Plastics, LLC

Message:

15% Glass Reinforced, Flame Resistant PBT

| General Information                 |                                  |                   |             |
|-------------------------------------|----------------------------------|-------------------|-------------|
| UL YellowCard                       | E138590-222818                   | E138590-222819    |             |
| Filler / Reinforcement              | Glass Fiber,15% Filler by Weight |                   |             |
| Features                            | Flame Retardant                  |                   |             |
| UL File Number                      | E138590                          |                   |             |
| Processing Method                   | Injection Molding                |                   |             |
| Physical                            | Nominal Value                    | Unit              | Test Method |
| Specific Gravity                    | 1.53                             | g/cm <sup>3</sup> | ASTM D792   |
| Mechanical                          | Nominal Value                    | Unit              | Test Method |
| Tensile Strength (Break, 23°C)      | 93.1                             | MPa               | ASTM D638   |
| Tensile Elongation (Break)          | 5.0                              | %                 | ASTM D638   |
| Flexural Modulus                    | 4960                             | MPa               | ASTM D790   |
| Flexural Strength                   | 138                              | MPa               | ASTM D790   |
| Impact                              | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact (23°C, 3.18 mm) | 53                               | J/m               | ASTM D256   |
| Thermal                             | Nominal Value                    | Unit              | Test Method |
| Deflection Temperature Under Load   |                                  |                   | ASTM D648   |
| 0.45 MPa, Unannealed, 3.18 mm       | 210                              | °C                |             |
| 1.8 MPa, Unannealed, 3.18 mm        | 182                              | °C                |             |
| Flammability                        | Nominal Value                    |                   | Test Method |
| Flame Rating                        |                                  |                   | UL 94       |
| 1.50 mm                             | V-0                              |                   |             |
|                                     | V-0                              |                   |             |
| 3.00 mm                             | 5VA                              |                   |             |
| Injection                           | Nominal Value                    | Unit              |             |
| Drying Temperature                  | 116                              | °C                |             |
| Drying Time                         | 3.0 to 4.0                       | hr                |             |
| Suggested Max Moisture              | 0.020                            | %                 |             |
| Rear Temperature                    | 238 to 271                       | °C                |             |
| Middle Temperature                  | 249 to 277                       | °C                |             |
| Front Temperature                   | 249 to 277                       | °C                |             |
| Nozzle Temperature                  | 249 to 277                       | °C                |             |

|                        |                |     |
|------------------------|----------------|-----|
| Processing (Melt) Temp | 238 to 271     | °C  |
| Mold Temperature       | 26.7 to 82.2   | °C  |
| Back Pressure          | 0.345 to 0.689 | MPa |

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