

# RENATUS® BN9015

## Polyplastics - Polyethylene Terephthalate

### General Information

#### Product Description

Flame Retardant, Standard

Moldable at Low Temperature, GF Reinforced, Black Color

#### General

|                               |                                      |
|-------------------------------|--------------------------------------|
| Filler / Reinforcement        | • Glass Fiber, 15% Filler by Weight  |
| Additive                      | • Flame Retardant                    |
| Features                      | • Flame Retardant • Good Moldability |
| UL File Number                | • E213445                            |
| Appearance                    | • Black                              |
| Forms                         | • Pellets                            |
| Part Marking Code (ISO 11469) | • >PET-GF15 FR(17)<                  |

### Properties <sup>1</sup>

| Physical   | Nominal Value | Unit                  | Test Method |
|--|---------------|-----------------------|-------------|
| Density  | 1.58          | g/cm <sup>3</sup>     | ISO 1183    |
| Water Absorption (24 hr, 73°F, 0.0394 in)                | 0.20          | %                     | ISO 62      |
| Mechanical   | Nominal Value | Unit                  | Test Method |
| Tensile Stress   | 15200         | psi                   | ISO 527-2   |
| Tensile Strain (Break)                                   | 2.2           | %                     | ISO 527-2   |
| Flexural Modulus   | 928000        | psi                   | ISO 178     |
| Flexural Stress  | 23600         | psi                   | ISO 178     |
| Impact   | Nominal Value | Unit                  | Test Method |
| Charpy Notched Impact Strength (73°F)                    | 2.9           | ft·lb/in <sup>2</sup> | ISO 179/1eA |
| Thermal  | Nominal Value | Unit                  | Test Method |
| Deflection Temperature Under Load<br>264 psi, Unannealed | 435           | °F                    | ISO 75-2/A  |
| Electrical   | Nominal Value | Unit                  | Test Method |
| Volume Resistivity                                       | 1.0E+16       | ohms·cm               | IEC 60093   |
| Electric Strength (0.118 in)                             | 560           | V/mil                 | IEC 60243-1 |
| Comparative Tracking Index                               | 250           | V                     | IEC 60112   |
| Flammability   | Nominal Value | Unit                  | Test Method |
| Flame Rating   | V-0           |                       | UL 94       |