

# Rynite® 415HP BK503

THERMOPLASTIC POLYESTER RESIN

DuPont Performance Polymers

## Message:

15% Glass Reinforced Polyethylene Terephthalate with Excellent Impact Resistance

| General Information                               |                                   |       |                      |
|---------------------------------------------------|-----------------------------------|-------|----------------------|
| UL YellowCard                                     | E41938-257696                     |       |                      |
| Filler / Reinforcement                            | Glass Fiber, 15% Filler by Weight |       |                      |
| Agency Ratings                                    | UL Unspecified Rating             |       |                      |
| Processing Method                                 | Injection Molding                 |       |                      |
| Part Marking Code (ISO 11469)                     | >PET-IGF15<                       |       |                      |
| Resin ID (ISO 1043)                               | PET-IGF15                         |       |                      |
| Physical                                          | Nominal Value                     | Unit  | Test Method          |
| Density                                           | 1.39                              | g/cm³ | ISO 1183             |
| Mechanical                                        | Nominal Value                     | Unit  | Test Method          |
| Tensile Modulus                                   | 4500                              | MPa   | ISO 527-2            |
| Tensile Stress (Break)                            | 80.0                              | MPa   | ISO 527-2            |
| Tensile Strain (Break)                            | 5.0                               | %     | ISO 527-2            |
| Flexural Modulus                                  | 4000                              | MPa   | ISO 178              |
| Impact                                            | Nominal Value                     | Unit  | Test Method          |
| Charpy Notched Impact Strength (23°C)             | 11                                | kJ/m² | ISO 179/1eA          |
| Charpy Unnotched Impact Strength (23°C)           | 55                                | kJ/m² | ISO 179/1eU          |
| Notched Izod Impact Strength (23°C)               | 11                                | kJ/m² | ISO 180/1A           |
| Thermal                                           | Nominal Value                     | Unit  | Test Method          |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 190                               | °C    | ISO 75-2/A           |
| Melting Temperature <sup>1</sup>                  | 250                               | °C    | ISO 11357-3          |
| Electrical                                        | Nominal Value                     | Unit  | Test Method          |
| Comparative Tracking Index                        | 350                               | V     | IEC 60112            |
| Flammability                                      | Nominal Value                     | Unit  | Test Method          |
| Flammability Classification                       |                                   |       | IEC 60695-11-10, -20 |
| 0.750 mm                                          | HB                                |       |                      |
| 1.50 mm                                           | HB                                |       |                      |
| NOTE                                              |                                   |       |                      |
| 1.                                                | 10°C/min                          |       |                      |

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