

# Zytel® HTN 54G15HSLR BK031

HIGH PERFORMANCE POLYAMIDE RESIN

DuPont Performance Polymers

Message:

15% Glass Reinforced, Toughened, PPA, High Performance Polyamide

| General Information                           |      |                                            |       |             |
|-----------------------------------------------|------|--------------------------------------------|-------|-------------|
| UL YellowCard                                 |      | E41938-502428                              |       |             |
| Filler / Reinforcement                        |      | Glass Fiber,15% Filler by Weight           |       |             |
| Additive                                      |      | Heat Stabilizer                            |       |             |
| Features                                      |      | Heat Stabilized                            |       |             |
| Agency Ratings                                |      | UL Unspecified Rating                      |       |             |
| Processing Method                             |      | Injection Molding                          |       |             |
| Multi-Point Data                              |      | Isothermal Stress vs. Strain (ISO 11403-1) |       |             |
|                                               |      | Secant Modulus vs. Strain (ISO 11403-1)    |       |             |
|                                               |      |                                            |       |             |
| Part Marking Code (ISO 11469)                 |      | >PA-IGF15<                                 |       |             |
| Part Marking Code (SAE J1344)                 |      | >PPA-IGF15<                                |       |             |
| Physical                                      | Dry  | Conditioned                                | Unit  | Test Method |
| Density                                       | 1.25 | --                                         | g/cm³ | ISO 1183    |
| Molding Shrinkage                             |      |                                            |       | ISO 294-4   |
| Across Flow                                   | 0.70 | --                                         | %     |             |
| Flow                                          | 0.40 | --                                         | %     |             |
| Viscosity Number (96% H2SO4 (Sulphuric Acid)) | 82.0 | --                                         | cm³/g | ISO 307     |
| Mechanical                                    | Dry  | Conditioned                                | Unit  | Test Method |
| Tensile Modulus                               | 5500 | 6100                                       | MPa   | ISO 527-2   |
| Tensile Stress (Break)                        | 125  | 118                                        | MPa   | ISO 527-2   |
| Tensile Strain (Break)                        | 3.5  | 3.0                                        | %     | ISO 527-2   |
| Flexural Modulus                              | 4900 | --                                         | MPa   | ISO 178     |
| Flexural Stress                               | 210  | --                                         | MPa   | ISO 178     |
| Impact                                        | Dry  | Conditioned                                | Unit  | Test Method |
| Charpy Notched Impact Strength                |      |                                            |       | ISO 179/1eA |
| -40°C                                         | 5.0  | --                                         | kJ/m² |             |
| 23°C                                          | 6.0  | --                                         | kJ/m² |             |
| Charpy Unnotched Impact Strength (23°C)       | 60   | --                                         | kJ/m² | ISO 179/1eU |
| Thermal                                       | Dry  | Conditioned                                | Unit  | Test Method |
| Heat Deflection Temperature                   |      |                                            |       |             |

|                                  |            |             |          |                      |
|----------------------------------|------------|-------------|----------|----------------------|
| 0.45 MPa, Unannealed             | 277        | --          | °C       | ISO 75-2/B           |
| 1.8 MPa, Unannealed              | 230        | --          | °C       | ISO 75-2/A           |
| Melting Temperature <sup>1</sup> | 300        | --          | °C       | ISO 11357-3          |
| CLTE                             |            |             |          | ISO 11359-2          |
| Flow                             | 3.4E-5     | --          | cm/cm/°C |                      |
| Flow : -40 to 23°C               | 3.4E-5     | --          | cm/cm/°C |                      |
| Transverse                       | 7.3E-5     | --          | cm/cm/°C |                      |
| Transverse : -40 to 23°C         | 7.0E-5     | --          | cm/cm/°C |                      |
| Electrical                       | Dry        | Conditioned | Unit     | Test Method          |
| Volume Resistivity               | 1.0E+15    | --          | ohms·cm  | IEC 60093            |
| Flammability                     | Dry        | Conditioned | Unit     | Test Method          |
| Flammability Classification      |            |             |          | IEC 60695-11-10, -20 |
| 0.800 mm                         | HB         | --          |          |                      |
| 1.50 mm                          | HB         | --          |          |                      |
| NOTE                             |            |             |          |                      |
| 1.                               | First Heat |             |          |                      |

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