

# Zytel® HTN 54G35HSLR NC010

HIGH PERFORMANCE POLYAMIDE RESIN

DuPont Performance Polymers

Message:

35% Glass Reinforced, Toughened, PPA, High Performance Polyamide

| General Information                     |       |                                  |                   |             |
|-----------------------------------------|-------|----------------------------------|-------------------|-------------|
| UL YellowCard                           |       | E41938-234562                    |                   |             |
| Filler / Reinforcement                  |       | Glass Fiber,35% Filler by Weight |                   |             |
| Additive                                |       | Heat Stabilizer                  |                   |             |
|                                         |       | Lubricant                        |                   |             |
|                                         |       | Mold Release                     |                   |             |
| Features                                |       | Heat Stabilized                  |                   |             |
|                                         |       | Lubricated                       |                   |             |
| Forms                                   |       | Pellets                          |                   |             |
| Processing Method                       |       | Injection Molding                |                   |             |
| Part Marking Code (ISO 11469)           |       | >PA-IGF35<                       |                   |             |
| Part Marking Code (SAE J1344)           |       | >PPA-IGF35<                      |                   |             |
| Physical                                | Dry   | Conditioned                      | Unit              | Test Method |
| Density                                 | 1.42  | --                               | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage                       |       |                                  |                   | ISO 294-4   |
| Across Flow                             | 0.60  | --                               | %                 |             |
| Flow                                    | 0.20  | --                               | %                 |             |
| Mechanical                              | Dry   | Conditioned                      | Unit              | Test Method |
| Tensile Modulus                         | 10000 | --                               | MPa               | ISO 527-2   |
| Tensile Stress (Break)                  | 180   | --                               | MPa               | ISO 527-2   |
| Tensile Strain (Break)                  | 3.0   | --                               | %                 | ISO 527-2   |
| Tensile Creep Modulus                   |       |                                  |                   | ISO 899-1   |
| 1 hr                                    | --    | 11000                            | MPa               |             |
| 1000 hr                                 | --    | 10000                            | MPa               |             |
| Flexural Modulus                        | 9000  | --                               | MPa               | ISO 178     |
| Impact                                  | Dry   | Conditioned                      | Unit              | Test Method |
| Charpy Notched Impact Strength          |       |                                  |                   | ISO 179/1eA |
| -40°C                                   | 9.0   | --                               | kJ/m <sup>2</sup> |             |
| 23°C                                    | 12    | 11                               | kJ/m <sup>2</sup> |             |
| Charpy Unnotched Impact Strength (23°C) |       |                                  |                   | ISO 179/1eU |
|                                         | 75    | --                               | kJ/m <sup>2</sup> |             |
| Thermal                                 | Dry   | Conditioned                      | Unit              | Test Method |

|                                  |        |             |          |             |
|----------------------------------|--------|-------------|----------|-------------|
| Heat Deflection Temperature      |        |             |          |             |
| 0.45 MPa, Unannealed             | 285    | --          | °C       | ISO 75-2/B  |
| 1.8 MPa, Unannealed              | 255    | --          | °C       | ISO 75-2/A  |
| Melting Temperature <sup>1</sup> | 300    | --          | °C       | ISO 11357-3 |
| CLTE                             |        |             |          | ISO 11359-2 |
| Flow                             | 2.0E-5 | --          | cm/cm/°C |             |
| Flow : -40 to 23°C               | 2.0E-5 | --          | cm/cm/°C |             |
| Transverse                       | 7.2E-5 | --          | cm/cm/°C |             |
| Transverse : -40 to 23°C         | 7.5E-5 | --          | cm/cm/°C |             |
| Thermal Conductivity             | 0.35   | --          | W/m/K    |             |
| Electrical                       | Dry    | Conditioned | Unit     | Test Method |
| Surface Resistivity              | --     | 1.0E+14     | ohms     | IEC 60093   |
| Electric Strength                | 43     | 42          | kV/mm    | IEC 60243-1 |
| Comparative Tracking Index       | 600    | --          | V        | IEC 60112   |
| NOTE                             |        |             |          |             |

1. First Heat

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