

# Zytel® RS 3261THSL BK041A

RENEWABLY SOURCED™ POLYAMIDES\*

DuPont Performance Polymers

Message:

Toughened, Renewably Sourced, Polyamide 610 Developed for Injection Molding

| General Information                                      |          |                                           |                   |             |
|----------------------------------------------------------|----------|-------------------------------------------|-------------------|-------------|
| Additive                                                 |          | Heat Stabilizer                           |                   |             |
|                                                          |          | Lubricant                                 |                   |             |
|                                                          |          | Mold Release                              |                   |             |
| Features                                                 |          | Heat Stabilized                           |                   |             |
|                                                          |          | Lubricated                                |                   |             |
| Forms                                                    |          | Pellets                                   |                   |             |
| Processing Method                                        |          | Injection Molding                         |                   |             |
| Multi-Point Data                                         |          | Shear Stress vs. Shear Rate (ISO 11403-1) |                   |             |
|                                                          |          | Viscosity vs. Shear Rate (ISO 11403-2)    |                   |             |
| Part Marking Code (ISO 11469)                            |          | >PA610-I<                                 |                   |             |
| Resin ID (ISO 1043)                                      |          | PA610-I                                   |                   |             |
| Physical                                                 | Dry      | Conditioned                               | Unit              | Test Method |
| Density                                                  | 1.03     | --                                        | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage                                        |          |                                           |                   | ISO 294-4   |
| Across Flow                                              | 1.2      | --                                        | %                 |             |
| Flow                                                     | 1.5      | --                                        | %                 |             |
| Water Absorption<br>(Equilibrium, 23°C, 2.00 mm, 50% RH) | 1.2      | --                                        | %                 | ISO 62      |
| Mechanical                                               | Dry      | Conditioned                               | Unit              | Test Method |
| Tensile Modulus                                          | 1500     | 800                                       | MPa               | ISO 527-2   |
| Tensile Stress (Yield)                                   | 40.0     | 32.0                                      | MPa               | ISO 527-2   |
| Tensile Strain (Yield)                                   | 5.0      | 30                                        | %                 | ISO 527-2   |
| Nominal Tensile Strain at Break                          | > 50     | > 50                                      | %                 | ISO 527-2   |
| Impact                                                   | Dry      | Conditioned                               | Unit              | Test Method |
| Charpy Notched Impact Strength (23°C, Partial Break)     | 70       | 95                                        | kJ/m <sup>2</sup> | ISO 179/1eA |
| Charpy Unnotched Impact Strength (23°C)                  | No Break | No Break                                  |                   | ISO 179/1eU |

| Notched Izod Impact Strength (23°C, Partial Break) | 65       | 80          | kJ/m <sup>2</sup> | ISO 180/1A  |
|----------------------------------------------------|----------|-------------|-------------------|-------------|
| Thermal                                            | Dry      | Conditioned | Unit              | Test Method |
| Heat Deflection Temperature                        |          |             |                   |             |
| 0.45 MPa, Unannealed                               | 110      | --          | °C                | ISO 75-2/B  |
| 1.8 MPa, Unannealed                                | 50.0     | --          | °C                | ISO 75-2/A  |
| Glass Transition Temperature <sup>1</sup>          | 60.0     | --          | °C                | ISO 11357-2 |
| Melting Temperature <sup>2</sup>                   | 223      | --          | °C                | ISO 11357-3 |
| NOTE                                               |          |             |                   |             |
| 1.                                                 | 10°C/min |             |                   |             |
| 2.                                                 | 10°C/min |             |                   |             |

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