

# Minlon® 73M30 NC010

MINERAL REINFORCED NYLON RESIN

DuPont Performance Polymers

Message:

30% Mineral Reinforced Polyamide 6

| General Information                |      |                                               |                    |             |
|------------------------------------|------|-----------------------------------------------|--------------------|-------------|
| UL YellowCard                      |      | E41938-234419                                 |                    |             |
| Filler / Reinforcement             |      | Mineral,30% Filler by Weight                  |                    |             |
| Additive                           |      | Heat Stabilizer                               |                    |             |
|                                    |      | Mold Release                                  |                    |             |
| Features                           |      | Heat Stabilized                               |                    |             |
|                                    |      | Platable                                      |                    |             |
| Forms                              |      | Pellets                                       |                    |             |
| Processing Method                  |      | Injection Molding                             |                    |             |
| Multi-Point Data                   |      | Isothermal Stress vs. Strain (ISO 11403-1)    |                    |             |
|                                    |      | Secant Modulus vs. Strain (ISO 11403-1)       |                    |             |
|                                    |      | Tensile Modulus vs. Temperature (ISO 11403-1) |                    |             |
| Part Marking Code (ISO 11469)      |      | >PA6-MD30<                                    |                    |             |
| Resin ID (ISO 1043)                |      | PA6-MD30                                      |                    |             |
| Physical                           | Dry  | Conditioned                                   | Unit               | Test Method |
| Density                            | 1.35 | --                                            | g/cm <sup>3</sup>  | ISO 1183    |
| Molding Shrinkage                  |      |                                               |                    | ISO 294-4   |
| Across Flow                        | 0.90 | --                                            | %                  |             |
| Flow                               | 0.90 | --                                            | %                  |             |
| Water Absorption                   |      |                                               |                    | ISO 62      |
| 23°C, 24 hr, 2.00 mm               | 6.3  | --                                            | %                  |             |
| Equilibrium, 23°C, 2.00 mm, 50% RH | 2.1  | --                                            | %                  |             |
| Viscosity Number                   | 145  | --                                            | cm <sup>3</sup> /g | ISO 307     |
| Mechanical                         | Dry  | Conditioned                                   | Unit               | Test Method |
| Tensile Modulus                    | 4800 | 1700                                          | MPa                | ISO 527-2   |
| Tensile Stress (Break)             | 82.0 | 55.0                                          | MPa                | ISO 527-2   |
| Tensile Strain (Break)             | 15   | 40                                            | %                  | ISO 527-2   |
| Tensile Creep Modulus              |      |                                               |                    | ISO 899-1   |
| 1 hr                               | --   | 1180                                          | MPa                |             |
| 1000 hr                            | --   | 740                                           | MPa                |             |

|                                        |                       |             |                   |                      |
|----------------------------------------|-----------------------|-------------|-------------------|----------------------|
| Flexural Modulus                       | 4800                  | 1800        | MPa               | ISO 178              |
| Impact                                 | Dry                   | Conditioned | Unit              | Test Method          |
| Charpy Notched Impact Strength         |                       |             |                   | ISO 179/1eA          |
| -30°C                                  | 3.5                   | 3.5         | kJ/m <sup>2</sup> |                      |
| 23°C                                   | 5.5                   | 11          | kJ/m <sup>2</sup> |                      |
| Charpy Unnotched Impact Strength       |                       |             |                   | ISO 179/1eU          |
| -30°C                                  | 85                    | 85          | kJ/m <sup>2</sup> |                      |
| 23°C                                   | 110 kJ/m <sup>2</sup> | No Break    |                   |                      |
| Notched Izod Impact Strength           |                       |             |                   | ISO 180/1A           |
| -30°C                                  | 4.0                   | --          | kJ/m <sup>2</sup> |                      |
| 23°C                                   | 5.5                   | 9.0         | kJ/m <sup>2</sup> |                      |
| Thermal                                | Dry                   | Conditioned | Unit              | Test Method          |
| Heat Deflection Temperature            |                       |             |                   |                      |
| 0.45 MPa, Unannealed                   | 196                   | --          | °C                | ISO 75-2/B           |
| 1.8 MPa, Unannealed                    | 78.0                  | --          | °C                | ISO 75-2/A           |
| Vicat Softening Temperature            | 210                   | --          | °C                | ISO 306/B50          |
| Melting Temperature <sup>1</sup>       | 221                   | --          | °C                | ISO 11357-3          |
| CLTE                                   |                       |             |                   | ISO 11359-2          |
| Flow                                   | 8.8E-5                | --          | cm/cm/°C          |                      |
| Transverse                             | 1.0E-4                | --          | cm/cm/°C          |                      |
| Flammability                           | Dry                   | Conditioned |                   | Test Method          |
| Flammability Classification (0.850 mm) | HB                    | --          |                   | IEC 60695-11-10, -20 |
| NOTE                                   |                       |             |                   |                      |
| 1.                                     | 10°C/min              |             |                   |                      |

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