

# Megalon® 100HSL-BK10W

Polyamide 66

Mega Polymers

## Message:

General purpose Type 6/6 nylon, heat stabilized for long term thermal aging properties with additional carbon black designed for outdoor use.

| General Information              |                                         |                   |                |
|----------------------------------|-----------------------------------------|-------------------|----------------|
| Additive                         | Carbon Black<br>Heat Stabilizer         |                   |                |
| Features                         | General Purpose<br>Heat Stabilized      |                   |                |
| Uses                             | General Purpose<br>Outdoor Applications |                   |                |
| Forms                            | Pellets                                 |                   |                |
| Processing Method                | Injection Molding                       |                   |                |
| Physical                         | Nominal Value                           | Unit              | Test Method    |
| Specific Gravity                 | 1.14                                    | g/cm <sup>3</sup> | ASTM D792      |
| Molding Shrinkage                |                                         |                   | ISO 294-4      |
| Across Flow : 2.00 mm            | 1.3                                     | %                 |                |
| Flow : 2.00 mm                   | 1.4                                     | %                 |                |
| Mechanical                       | Nominal Value                           | Unit              | Test Method    |
| Tensile Modulus                  | 3100                                    | MPa               | ISO 527-2      |
| Tensile Stress (Yield)           | 85.0                                    | MPa               | ISO 527-2      |
| Tensile Strain (Yield)           | 5.0                                     | %                 | ISO 527-2      |
| Nominal Tensile Strain at Break  | 20                                      | %                 | ISO 527-2      |
| Flexural Modulus                 | 2940                                    | MPa               | ISO 178        |
| Impact                           | Nominal Value                           | Unit              | Test Method    |
| Charpy Notched Impact Strength   | 5.0                                     | kJ/m <sup>2</sup> | ISO 179/1e     |
| Charpy Unnotched Impact Strength | No Break                                |                   | ISO 179/1eU    |
| Thermal                          | Nominal Value                           | Unit              | Test Method    |
| Heat Deflection Temperature      |                                         |                   |                |
| 0.45 MPa, Unannealed             | 200                                     | °C                | ISO 75-2/B     |
| 1.8 MPa, Unannealed              | 70.0                                    | °C                | ISO 75-2/A     |
| Peak Melting Temperature         | 263                                     | °C                | ASTM D3418     |
| Flammability                     | Nominal Value                           | Unit              | Test Method    |
| Glow Wire Flammability Index     |                                         |                   | IEC 60695-2-12 |
| 0.710 mm                         | 850                                     | °C                |                |

| 1.50 mm                        | 960           | °C             |
|--------------------------------|---------------|----------------|
| 3.00 mm                        | 960           | °C             |
| Glow Wire Ignition Temperature |               | IEC 60695-2-13 |
| 0.710 mm                       | 725           | °C             |
| 1.50 mm                        | 725           | °C             |
| 3.00 mm                        | 725           | °C             |
| Injection                      | Nominal Value | Unit           |
| Suggested Max Moisture         | 0.20          | %              |
| Processing (Melt) Temp         | 280 to 310    | °C             |
| Mold Temperature               | 65.0 to 120   | °C             |

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