

## AuroraGuard™ 6HSL

Aurora Material Solutions, LLC - Polyamide 6

### General Information

#### Product Description

Nylon 6, Heat Stabilized with Internal and External Lubricants

Formerly known as EnLon 6HSL

#### General

|                   |                           |                           |                 |
|-------------------|---------------------------|---------------------------|-----------------|
| Material Status   | • Commercial: Active      |                           |                 |
| Availability      | • Africa & Middle East    | • Europe                  | • North America |
|                   | • Asia Pacific            | • Latin America           |                 |
| Additive          | • Heat Stabilizer         | • Lubricant               |                 |
| Features          | • Heat Stabilized         | • Lubricated              |                 |
| Uses              | • Automotive Applications | • Industrial Applications |                 |
| Appearance        | • Black                   | • Colors Available        | • Natural Color |
| Processing Method | • Injection Molding       |                           |                 |

### Properties <sup>1</sup>

| Physical                                                | Nominal Value | Unit     | Test Method |
|---------------------------------------------------------|---------------|----------|-------------|
| Density / Specific Gravity                              | 1.13          |          | ASTM D792   |
| Mechanical                                              | Nominal Value | Unit     | Test Method |
| Tensile Strength (Yield)                                | 11500         | psi      | ASTM D638   |
| Tensile Elongation (Break)                              | 50            | %        | ASTM D638   |
| Flexural Modulus                                        | 420000        | psi      | ASTM D790   |
| Flexural Strength                                       | 16000         | psi      | ASTM D790   |
| Impact                                                  | Nominal Value | Unit     | Test Method |
| Notched Izod Impact (73°F)                              | 1.0           | ft-lb/in | ASTM D256   |
| Thermal                                                 | Nominal Value | Unit     | Test Method |
| Deflection Temperature Under Load (264 psi, Unannealed) | 145           | °F       | ASTM D648   |

### Processing Information

| Injection              | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature     | 180           | °F   |
| Drying Time            | 2.0 to 4.0    | hr   |
| Suggested Max Moisture | 0.020         | %    |
| Rear Temperature       | 470 to 520    | °F   |
| Middle Temperature     | 480 to 530    | °F   |
| Front Temperature      | 490 to 540    | °F   |
| Nozzle Temperature     | 490 to 540    | °F   |
| Processing (Melt) Temp | 490 to 540    | °F   |
| Mold Temperature       | 130 to 200    | °F   |

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

