

## AuroraFlex™ EL 8068BL

Aurora Material Solutions, LLC - *Thermoplastic Elastomer*

### General Information

#### Product Description

8068BL is a black lubricated thermoplastic elastomer formulated for applications that require rubber-like properties and a reduced coefficient of friction. 8068BL is well suited for consumer goods and industrial applications requiring increased U.V. stability. 8068BL can be overmolded to polypropylene.

#### General

|                   |                         |                           |                 |
|-------------------|-------------------------|---------------------------|-----------------|
| Material Status   | • Commercial: Active    |                           |                 |
| Availability      | • Africa & Middle East  | • Europe                  | • North America |
|                   | • Asia Pacific          | • Latin America           |                 |
| Additive          | • Lubricant             | • UV Stabilizer           |                 |
| Features          | • Lubricated            | • UV Stabilized           |                 |
| Uses              | • Consumer Applications | • Industrial Applications | • Overmolding   |
| Appearance        | • Black                 |                           |                 |
| Processing Method | • Extrusion             | • Injection Molding       |                 |

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

| Physical                             | Nominal Value | Unit   | Test Method |
|--------------------------------------|---------------|--------|-------------|
| Density / Specific Gravity           | 1.04          |        | ASTM D792   |
| Elastomers                           | Nominal Value | Unit   | Test Method |
| Tensile Stress (100% Strain)         | 421           | psi    | ASTM D412   |
| Tensile Strength                     | 1150          | psi    | ASTM D412   |
| Tensile Elongation (Break)           | 660           | %      | ASTM D412   |
| Tear Strength                        | 176           | lbf/in | ASTM D624   |
| Hardness                             | Nominal Value | Unit   | Test Method |
| Durometer Hardness (Shore A, 10 sec) | 73            |        | ASTM D2240  |

### Processing Information

| Injection               | Nominal Value      | Unit |
|-------------------------|--------------------|------|
| Rear Temperature        | 331 to 351         | °F   |
| Front Temperature       | 351 to 360         | °F   |
| Nozzle Temperature      | 360 to 379         | °F   |
| Mold Temperature        | 70 to 100          | °F   |
| Injection Rate          |                    | Fast |
| Back Pressure           | 50.0 to 99.9       | psi  |
| Screw Compression Ratio | 2.5:1.0 to 3.0:1.0 |      |

