

## AuroraFlex™ 8088NFRV0

Aurora Material Solutions, LLC - *Thermoplastic Elastomer*

### General Information

#### Product Description

8088NFRV0 is a colorable thermoplastic elastomer formulated for applications that require rubber-like flame retardant properties. 8088NFRV0 is well suited for consumer goods and industrial applications requiring U.V. stability. 8088NFRV0 can be overmolded to polypropylene.

#### General

|                   |                                          |                             |                 |
|-------------------|------------------------------------------|-----------------------------|-----------------|
| Material Status   | • Commercial: Active                     |                             |                 |
| Availability      | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Additive          | • Flame Retardant                        | • UV Stabilizer             |                 |
| Features          | • Flame Retardant                        | • Good Colorability         | • UV Stabilized |
| Uses              | • Consumer Applications                  | • Industrial Applications   | • Overmolding   |
| Processing Method | • Extrusion                              | • Injection Molding         |                 |

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

| Physical                             | Nominal Value | Unit   | Test Method |
|--------------------------------------|---------------|--------|-------------|
| Density / Specific Gravity           | 1.27          |        | ASTM D792   |
| Elastomers                           | Nominal Value | Unit   | Test Method |
| Tensile Stress (100% Strain)         | 885           | psi    | ASTM D412   |
| Tensile Strength                     | 1390          | psi    | ASTM D412   |
| Tensile Elongation (Break)           | 420           | %      | ASTM D412   |
| Tear Strength                        | 278           | lbf/in | ASTM D624   |
| Hardness                             | Nominal Value | Unit   | Test Method |
| Durometer Hardness (Shore A, 10 sec) | 87            |        | ASTM D2240  |

### Processing Information

| Injection               | Nominal Value      | Unit |
|-------------------------|--------------------|------|
| Rear Temperature        | 351 to 379         | °F   |
| Front Temperature       | 360 to 390         | °F   |
| Nozzle Temperature      | 370 to 399         | °F   |
| Mold Temperature        | 70 to 100          | °F   |
| Injection Rate          | Moderate-Fast      |      |
| Back Pressure           | 50.0 to 99.9       | psi  |
| Screw Compression Ratio | 2.5:1.0 to 3.0:1.0 |      |

