

AuroraFlex™ EXC12029

Aurora Material Solutions, LLC - *Thermoplastic Elastomer*

General Information

Product Description

A Thermoplastic Elastomer designed for wire and cable applications, jacketing material with excellent low temperature properties.

Note: Additional custom color matching is available upon request.

General

| | |
|-------------------|---|
| Material Status | • Commercial: Active |
| Availability | • Africa & Middle East • Europe • North America • Asia Pacific • Latin America |
| Features | • Low Temperature Resistant |
| Uses | • Jacketing • Wire & Cable Applications |
| Appearance | • Colors Available |
| Processing Method | • Extrusion |

Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|---|----------------|----------|-------------|
| Density / Specific Gravity | 0.922 to 0.982 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 2.0 | g/10 min | ASTM D1238 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Strength ² | 2310 | psi | ASTM D412 |
| Tensile Elongation ² (Break) | 600 | % | ASTM D412 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A, 15 sec) | 77 to 83 | | ASTM D2240 |
| Thermal | Nominal Value | Unit | Test Method |
| Brittleness Temperature ³ | -76.0 | °F | ASTM D746 |
| UL Temperature Rating | 221 | °F | UL 1581 |
| Aging | Nominal Value | Unit | Test Method |
| Change in Tensile Strength (277°F, 168 hr) | 8.0 | % | |
| Change in Ultimate Elongation (277°F, 168 hr) | -4.0 | % | |
| Flammability | Nominal Value | Unit | Test Method |
| Oxygen Index (0.125 in) | 18 | % | ASTM D2863 |

Processing Information

| Extrusion | Nominal Value | Unit |
|-----------------------|---------------|------|
| Cylinder Zone 1 Temp. | 335 | °F |
| Cylinder Zone 2 Temp. | 355 | °F |
| Cylinder Zone 3 Temp. | 360 | °F |
| Cylinder Zone 4 Temp. | 365 | °F |
| Melt Temperature | 365 | °F |
| Die Temperature | 365 to 375 | °F |

Notes

¹ Typical properties: these are not to be construed as specifications.

² Die C

³ 75mil

