

AuroraFlex™ GA21755105FR

Aurora Material Solutions, LLC - Polyvinyl Chloride

General Information
Product Description

A 105°C rated , UV resistant, clear PVC flame retardant jacketing and insulation compound with good oil resistance and 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 | |
| Additive | • Flame Retardant | | |
| Features | • Flame Retardant | • Low Temperature Toughness | • UV Resistant |
| Uses | • Insulation | • Jacketing | |
| Appearance | • Clear/Transparent | • Colors Available | |

Properties¹

| Physical | Nominal Value | Unit | Test Method |
|--|---------------|------|-------------|
| Density / Specific Gravity | 1.30 to 1.36 | | ASTM D792 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Strength (Break) | 3000 | psi | ASTM D412 |
| Tensile Elongation (Break) | 400 | % | ASTM D412 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A, 15 sec) | 70 to 76 | | ASTM D2240 |
| Thermal | Nominal Value | Unit | Test Method |
| Brittleness Temperature ² | -40.0 | °F | ASTM D746 |
| Aging | Nominal Value | Unit | Test Method |
| Change in Tensile Strength (212°F, 96 hr, in ASTM #2 Oil) | 3.0 | % | ASTM D412 |
| Change in Ultimate Elongation (212°F, 96 hr, in ASTM #2 Oil) | -34 | % | ASTM D412 |
| Flammability | Nominal Value | Unit | Test Method |
| Oxygen Index (0.125 in) | 28 | % | ASTM D2863 |

Processing Information

| Extrusion | Nominal Value | Unit |
|-----------------------|---------------|------|
| Cylinder Zone 1 Temp. | 300 to 345 | °F |
| Cylinder Zone 2 Temp. | 300 to 345 | °F |
| Cylinder Zone 3 Temp. | 300 to 345 | °F |
| Cylinder Zone 4 Temp. | 300 to 345 | °F |
| Melt Temperature | 320 to 330 | °F |
| Die Temperature | 350 to 355 | °F |

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

² 75 mil
