

AuroraFlex™ 9410FRV0

Aurora Material Solutions, LLC - *Compounded Polypropylene*

General Information

Product Description

UL 94 V-0, low bloom, flame retardant polypropylene compound designed with halogen-based technology. AuroraFlex 9410FRV0 exhibits a balance of high flexural modulus and good impact. It is designed for extrusion and molding applications.

General

| | | | |
|-------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East • Asia Pacific | • Europe • Latin America | • North America |
| Additive | • Flame Retardant | | |
| Features | • Flame Retardant | • Good Impact Resistance | • Low Blooming |
| Uses | • Aerospace Applications • Agricultural Applications • Appliances • Automotive Applications • Capstock | • Consumer Applications • Electrical/Electronic Applications • Energy Storage • Film • Footwear | • Furniture • Medical/Healthcare Applications • Personal Care • Sheet |
| Processing Method | • Extrusion | • Injection Molding | |

Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|--------------------------------------------------------------------------------|------------------|----------|-------------|
| Density / Specific Gravity | 1.26 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg) | 16 | g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow | 3.0E-3 to 4.0E-3 | in/in | ASTM D955 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | 4290 | psi | ASTM D638 |
| Tensile Elongation (Break) | 100 | % | ASTM D638 |
| Flexural Modulus | | | ASTM D790 |
| 1% Secant | 410000 | psi | |
| Tangent | 520000 | psi | |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | 2.0 | ft·lb/in | ASTM D256 |
| Instrumented Dart Impact | 192 | in·lb | ASTM D5420 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A) | 63 | | ASTM D2240 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load ² (66 psi, Annealed, 0.00492 in) | 260 | °F | ASTM D648 |
| Deflection Temperature Under Load ² (264 psi, Annealed, 0.00492 in) | 153 | °F | ASTM D648 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (0.13 in) | V-0 | | UL 94 |
| Oxygen Index | > 25 | % | ASTM D2863 |

Notes

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

² Fiber Stress

