

## AuroraGuard™ F120MF1002

Aurora Material Solutions, LLC - Polypropylene

### General Information

#### Product Description

Impact modified, Mineral Reinforced, Flame Retardent PP

Polypropylene, UL94 V0 Rated

Formerly known as EnDure F120MF1002

#### General

|                        |                                 |                           |                     |
|------------------------|---------------------------------|---------------------------|---------------------|
| Material Status        | • Commercial: Active            |                           |                     |
| Availability           | • Africa & Middle East          | • Europe                  | • North America     |
|                        | • Asia Pacific                  | • Latin America           |                     |
| Filler / Reinforcement | • Mineral, 20% Filler by Weight |                           |                     |
| Additive               | • Flame Retardant               | • Impact Modifier         |                     |
| Features               | • Flame Retardant               | • Impact Modified         |                     |
| Uses                   | • Appliances                    | • Automotive Applications | • HVAC Applications |
| Appearance             | • Black                         | • Colors Available        | • Natural Color     |
| Processing Method      | • Injection Molding             |                           |                     |

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

| Physical                                                | Nominal Value    | Unit     | Test Method |
|---------------------------------------------------------|------------------|----------|-------------|
| Density / Specific Gravity                              | 1.30             |          | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)               | 10               | g/10 min | ASTM D1238  |
| Molding Shrinkage - Flow (0.126 in)                     | 1.6E-4 to 2.2E-4 | in/in    | ASTM D955   |
| Mechanical                                              | Nominal Value    | Unit     | Test Method |
| Tensile Strength (Yield)                                | 3000             | psi      | ASTM D638   |
| Tensile Strength (Break)                                | 2000             | psi      | ASTM D638   |
| Flexural Modulus                                        | 325000           | psi      | ASTM D790   |
| Flexural Strength                                       | 5100             | psi      | ASTM D790   |
| Impact                                                  | Nominal Value    | Unit     | Test Method |
| Notched Izod Impact (73°F)                              | 1.2              | ft·lb/in | ASTM D256   |
| Thermal                                                 | Nominal Value    | Unit     | Test Method |
| Deflection Temperature Under Load (66 psi, Unannealed)  | 240              | °F       | ASTM D648   |
| Deflection Temperature Under Load (264 psi, Unannealed) | 155              | °F       | ASTM D648   |
| Flammability                                            | Nominal Value    | Unit     | Test Method |
| Flame Rating (0.13 in)                                  | V-1              |          | UL 94       |

### Processing Information

| Injection              | Nominal Value | Unit |
|------------------------|---------------|------|
| Rear Temperature       | 350 to 400    | °F   |
| Middle Temperature     | 390 to 450    | °F   |
| Front Temperature      | 390 to 450    | °F   |
| Nozzle Temperature     | 390 to 450    | °F   |
| Processing (Melt) Temp | 350 to 400    | °F   |
| Mold Temperature       | 100 to 150    | °F   |

