

## Technical Data Sheet

### Polyflam 55S7103NRRED

Polycarbonate

#### Product Description

Polyflam 55S7103NRRED is a Polycarbonate Glass Fiber, 10% filled material.

|                      |                  |
|----------------------|------------------|
| Forms                | Pellets          |
| Additive             | Flame Retardant  |
| Filler/Reinforcement | Glass Fiber, 10% |

| Typical Properties                                     | Nominal Value | Units             | Test Method |
|--------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                        |               |                   |             |
| Melt Flow Rate, (300 °C/1.2 kg)                        | 12            | g/10 min          | ASTM D1238  |
| Density - Specific Gravity                             | 1.26          | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>                                      |               |                   |             |
| Tensile Strength at Yield                              | 62.1          | MPa               | ASTM D638   |
| Flexural Modulus, (Tangent)                            | 3310          | MPa               | ASTM D790   |
| <b>Impact</b>                                          |               |                   |             |
| Notched Izod Impact                                    | 130           | J/m               | ASTM D256   |
| <b>Thermal</b>                                         |               |                   |             |
| Deflection Temperature Under Load Unannealed (264 psi) | 138           | °C                | ASTM D648   |
| Deflection Temperature Under Load Unannealed (66 psi)  | 141           | °C                | ASTM D648   |
| RTI Str                                                | 93.3          | °C                | UL 746B     |
| <b>UL Information</b>                                  |               |                   |             |
| Flame Rating                                           |               |                   |             |
| (1.5 mm)                                               | V-0           |                   | UL 94       |
| (2.5 mm)                                               | 5VA           |                   | UL 94       |

| Injection Parameters   | Nominal Value  | Units |
|------------------------|----------------|-------|
| Drying Time            | 4.0 to 6.0     | hr    |
| Drying Temperature     | 121            | °C    |
| Processing (Melt) Temp | 293 to 321     | °C    |
| Front Temperature      | 282 to 310     | °C    |
| Middle Temperature     | 282 to 310     | °C    |
| Rear Temperature       | 282 to 310     | °C    |
| Injection Rate         | Slow-Moderate  |       |
| Back Pressure          | 0.345 to 0.689 | MPa   |
| Mold Temperature       | 71 to 104      | °C    |
| Cushion                | 6.35 to 12.7   | mm    |