

Polyflam 55N5006NT3092WHI

LyondellBasell Industries - Polycarbonate

General Information

Product Description

Polyflam 55N5006NT3092WHI is a Polycarbonate material.

General

| | |
|----------|-------------------|
| Additive | • Flame Retardant |
| Features | • Flame Retardant |
| Forms | • Pellets |

Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|--|---------------|----------|-------------|
| Density / Specific Gravity | 1.23 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (300°C/1.2 kg) | 12 | g/10 min | ASTM D1238 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Yield) | 8800 | psi | ASTM D638 |
| Flexural Modulus - Tangent | 325000 | psi | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | 13 | ft-lb/in | ASTM D256 |
| Gardner Impact | > 320 | in-lb | ASTM D5420 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (66 psi, Unannealed) | 264 | °F | ASTM D648 |
| Deflection Temperature Under Load 264 psi, Unannealed | 261 | °F | ASTM D648 |
| RTI Str | 239 | °F | UL 746B |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating | | | UL 94 |
| 0.06 in | V-0 | | |
| 0.12 in | 5V | | |
| 0.10 in | 5VA | | |

Processing Information

| Injection | Nominal Value | Unit |
|------------------------|----------------|------|
| Drying Temperature | 250 | °F |
| Drying Time | 4.0 | hr |
| Rear Temperature | 480 to 570 | °F |
| Middle Temperature | 480 to 570 | °F |
| Front Temperature | 480 to 570 | °F |
| Processing (Melt) Temp | 540 to 570 | °F |
| Mold Temperature | 160 to 219 | °F |
| Injection Rate | Slow-Moderate | |
| Back Pressure | 50.0 to 99.9 | psi |
| Screw Speed | 40 to 75 | rpm |
| Cushion | 0.250 to 0.500 | in |