

Technical Data Sheet

Polyflam 55N5006NT3092WHI



Polycarbonate

Product Description

Polyflam 55N5006NT3092WHI is a Polycarbonate material.

Forms Pellets
Additive Flame Retardant

| Typical Properties | Nominal Value | Units | Test Method |
|--|---------------|-------------------|-------------|
| Physical | | | |
| Melt Flow Rate, (300 °C/1.2 kg) | 12 | g/10 min | ASTM D1238 |
| Density - Specific Gravity | 1.23 | g/cm ³ | ASTM D792 |
| Mechanical | | | |
| Tensile Strength at Yield | 60.7 | MPa | ASTM D638 |
| Flexural Modulus, (Tangent) | 2240 | MPa | ASTM D790 |
| Impact | | | |
| Gardner Impact | >36.2 | J | ASTM D5420 |
| Notched Izod Impact | 690 | J/m | ASTM D256 |
| Thermal | | | |
| Deflection Temperature Under Load Unannealed (264 psi) | 127 | °C | ASTM D648 |
| Deflection Temperature Under Load Unannealed (66 psi) | 129 | °C | ASTM D648 |
| RTI Str | 115 | °C | UL 746B |
| UL Information | | | |
| Flame Rating | | | |
| (1.5 mm) | V-0 | | UL 94 |
| (3.0 mm) | 5V | | UL 94 |
| (2.5 mm) | 5VA | | UL 94 |

| Injection Parameters | Nominal Value | Units |
|------------------------|----------------|-------|
| Drying Time | 4 | hr |
| Drying Temperature | 121 | °C |
| Screw Speed | 40 to 75 | rpm |
| Processing (Melt) Temp | 282 to 299 | °C |
| Front Temperature | 249 to 299 | °C |
| Middle Temperature | 249 to 299 | °C |
| Rear Temperature | 249 to 299 | °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 |