

Technical Data Sheet

Polyflam 12N4010NG6009GRY



Polypropylene, Unspecified (PP, Unspecified)

Product Description

Polyflam 12N4010NG6009GRY is a Polypropylene, Unspecified material.

Forms Pellets
Additive Flame Retardant

| Typical Properties | Nominal Value | Units | Test Method |
|---|---------------|-------------------|-------------|
| Physical | | | |
| Melt Flow Rate, (230 °C/2.16 kg) | 8.0 | g/10 min | ASTM D1238 |
| Density - Specific Gravity | 0.928 | g/cm ³ | ASTM D792 |
| Mechanical | | | |
| Tensile Strength at Yield | 34.5 | MPa | ASTM D638 |
| Flexural Modulus | 1450 | MPa | ASTM D790 |
| Impact | | | |
| Notched Izod Impact | 27 | J/m | ASTM D256 |
| Thermal | | | |
| Deflection Temperature Under Load Unannealed (66 psi) | 96.1 | °C | ASTM D648 |
| RTI Elec | 110 | °C | UL 746B |
| RTI Imp | 110 | °C | UL 746B |
| RTI Str | 110 | °C | UL 746B |
| UL Information | | | |
| Flame Rating, (1.5 mm) | V-2 | | UL 94 |

| Injection Parameters | Nominal Value | Units |
|------------------------|---------------|-------|
| Drying Time | 4 | hr |
| Drying Temperature | 82 | °C |
| Nozzle Temperature | 177 to 227 | °C |
| Processing (Melt) Temp | 182 to 227 | °C |
| Front Temperature | 177 to 227 | °C |
| Middle Temperature | 177 to 227 | °C |
| Rear Temperature | 177 to 216 | °C |
| Injection Rate | Slow-Moderate | |
| Back Pressure | <0.689 | MPa |
| Mold Temperature | 32 to 66 | °C |
| Cushion | 6.35 to 12.7 | mm |