

Technical Data Sheet

Polyflam 14N5004NCBLK



Polypropylene, Unspecified (PP, Unspecified)

Product Description

Polyflam 14N5004NCBLK is a Polypropylene, Unspecified material and is typically used in Injection Molding applications.

Processing Method Injection Molding

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 | 0.988 | g/cm ³ | ASTM D792 |
| Mechanical | | | |
| Tensile Strength at Yield | 22.8 | MPa | ASTM D638 |
| Flexural Modulus, (Tangent) | 1000 | MPa | ASTM D790 |
| Impact | | | |
| Gardner Impact | 19.2 | J | ASTM D5420 |
| Notched Izod Impact | 160 | J/m | ASTM D256 |
| Thermal | | | |
| Deflection Temperature Under Load Unannealed (66 psi) | 85 | °C | ASTM D648 |
| RTI Str | 93.3 | °C | UL 746B |
| UL Information | | | |
| Flame Rating, (1.5 mm) | V-0 | | UL 94 |

| Injection Parameters | Nominal Value | Units |
|---------------------------------------|----------------|-------|
| Drying Time | 2.0 to 4.0 | hr |
| Drying Temperature, (Desiccant Dryer) | 71 to 77 | °C |
| Nozzle Temperature | 204 to 227 | °C |
| Processing (Melt) Temp | 188 to 227 | °C |
| Front Temperature | 199 to 216 | °C |
| Middle Temperature | 188 to 216 | °C |
| Rear Temperature | 182 to 199 | °C |
| Injection Rate | Moderate | |
| Back Pressure | 0.345 to 0.689 | MPa |
| Mold Temperature | 27 to 49 | °C |