

Nylene® 734

Polyamide 6

Custom Resins Group

Message:

Heat stabilized version of 733, which is a highly impact modified nylon suitable for both molding and extrusion

In addition to heat stabilization to prevent thermal degradation, parts molded from 734 have excellent impact strength right out of the mold without post conditioning

Outstanding features include high stiffness and high strength

Cylinder temperatures should be in the 500-550°F range.

| General Information | | | |
|---|------------------------|-------|-------------|
| Additive | Impact Modifier | | |
| Features | Good Impact Resistance | | |
| | High Stiffness | | |
| | High Strength | | |
| | Impact Modified | | |
| Processing Method | Extrusion | | |
| | Injection Molding | | |
| | | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.08 | g/cm³ | ASTM D792 |
| Molding Shrinkage - Flow | 1.4 | % | ASTM D955 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (23°C) | 72.4 | MPa | ASTM D638 |
| Tensile Elongation (Break, 23°C) | 200 | % | ASTM D638 |
| Flexural Modulus (23°C) | 207 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | | | ASTM D256 |
| -40°C | 160 | J/m | |
| 23°C | 850 | J/m | |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 61.1 | °C | ASTM D648 |
| Peak Melting Temperature | 218 | °C | ASTM D3418 |
| Injection | Nominal Value | Unit | |
| Rear Temperature | 260 to 288 | °C | |
| Middle Temperature | 260 to 288 | °C | |
| Front Temperature | 260 to 288 | °C | |
| Extrusion | Nominal Value | Unit | |
| Cylinder Zone 1 Temp. | 260 to 288 | °C | |

| | | |
|-----------------------|------------|----|
| Cylinder Zone 2 Temp. | 260 to 288 | °C |
| Cylinder Zone 3 Temp. | 260 to 288 | °C |
| Cylinder Zone 4 Temp. | 260 to 288 | °C |
| Cylinder Zone 5 Temp. | 260 to 288 | °C |

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