

OXNILON 6 INJ

Polyamide 6
Oxford Polymers

Message:

OXNILON 6 INJ is a Polyamide 6 (Nylon 6) material. It is available in North America for injection molding.
Important attributes of OXNILON 6 INJ are:
Flame Rated
Impact Modified

| General Information | | | |
|-----------------------------------|-------------------|-------------------|-------------|
| Additive | Impact Modifier | | |
| Features | Impact Modified | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.14 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow | 1.2 to 1.8 | % | ASTM D955 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | | | ASTM D638 |
| Yield | 82.7 | MPa | |
| Break | 82.7 | MPa | |
| Flexural Modulus | 2830 | MPa | ASTM D790 |
| Flexural Strength | 114 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (4°C) | 53 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, Unannealed | 229 | °C | |
| 1.8 MPa, Unannealed | 87.8 | °C | |
| Flammability | Nominal Value | | Test Method |
| Flame Rating (1.59 mm) | V-2 | | UL 94 |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 73.9 to 85.0 | °C | |
| Drying Time | 3.0 to 4.0 | hr | |
| Drying Time, Maximum | 8.0 | hr | |
| Rear Temperature | 266 to 277 | °C | |
| Middle Temperature | 271 to 282 | °C | |
| Front Temperature | 277 to 288 | °C | |
| Processing (Melt) Temp | 277 to 293 | °C | |
| Mold Temperature | 65.6 to 93.3 | °C | |

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Recommended distributors for this material

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