

Nylene® 603

Polyamide 6

Custom Resins Group

Message:

Plasticized, high residual monomer resin designed for extrusion applications requiring excellent flexibility, high strength and good abrasion resistance. Applications include flexible tubing, cable jacketing, and mono-filament extrusion such as fish line and netting, sewing thread, and weaving thread. Optimum processing conditions should permit for a melt temperature of approximately 450°F at the die.

| General Information | | | |
|-----------------------------------|--------------------------|-------------------|-------------|
| Additive | Plasticizer | | |
| Features | Good Abrasion Resistance | | |
| | Good Flexibility | | |
| | High Strength | | |
| Uses | Cable Jacketing | | |
| | Monofilaments | | |
| | Netting | | |
| | Tubing | | |
| Processing Method | Extrusion | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.14 | g/cm ³ | ASTM D792 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (23°C) | 88.3 | MPa | ASTM D638 |
| Tensile Elongation (Break, 23°C) | 250 | % | ASTM D638 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 190 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, Unannealed | 168 | °C | |
| 1.8 MPa, Unannealed | 71.1 | °C | |
| Extrusion | Nominal Value | Unit | |
| Melt Temperature | 232 | °C | |

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