FLINT HILLS resources® Polypropylene

# 23N10A

# MedSelect™

## Random Copolymer for Injection Stretch Blow Molding and Injection Molding

**Features:** Nucleated, good dimensional stability. Produced without animal derived components
**Sterilization:** EtO and autoclave
**Applications:** Irrigation bottles, caps, and closures

## Resin Properties

| | Typical Value (SI) | Typical Value (English) | ASTM Test Method |
|---|---|---|---|
| Melt Flow Rate | 9.0 g/10min | | D1238 |
| Density | 0.90 g/cm3 | | D1505 |
| Melting Temperature | 145 -152 °C | 293 – 306 °F | D3418 |

## Mechanical Properties

| | Typical Value (SI) | Typical Value (English) | ASTM Test Method |
|---|---|---|---|
| Tensile Yield Strength | 27.8 MPa | 4030 psi | D 638 |
| Tensile Yield Elongation | 10 % | 10 % | D 638 |
| Flexural Modulus - Tangent | 1120 MPa | 162 kpsi | D 790 |
| Flexural Modulus - Secant | 1050 MPa | 150 kpsi | D 790 |
| Deflection Temperature @66psi (0.455 MPa) | 84 °C | 183 °F | D 648 |
| Notched Izod @ 23°C | 60 J/m | 1.1 ft-lb/in | D 256 |
| Gardner Impact @ 23°C | >36 J | >320in-lb | D 5420 |

## Regulatory

| | |
|---|---|
| FDA – 21 CFR 177.1520(c) 3.2a | Drug Master File listed |
| USP <88> Class VI, USP<85>, and ISO 10993-5 all pending | |

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