

23R2A



Random Copolymer for Extrusion and Injection Molding

Features: Produced without animal derived components

Sterilization: Gamma radiation, EtO, E-beam, and autoclave

Applications: Medical bottles, syringes, centrifuge tubes

Resin Properties

| | Typical Value (SI) | Typical Value (English) | ASTM Test Method |
|---------------------|------------------------|-------------------------|------------------|
| Melt Flow Rate | 2.0 g/10min | | D1238 |
| Density | 0.90 g/cm ³ | | D1505 |
| Melting Temperature | 150 -156 °C | 302 – 313 °F | D3418 |

Mechanical Properties

| | Typical Value (SI) | Typical Value (English) | ASTM Test Method |
|---|--------------------|-------------------------|------------------|
| Tensile Yield Strength | 26 MPa | 3800 psi | D 638 |
| Tensile Yield Elongation | 10.5 % | 10.5 % | D 638 |
| Flexural Modulus - Tangent | 950 MPa | 138 kpsi | D 790 |
| Flexural Modulus - Secant | 900 MPa | 131 kpsi | D 790 |
| Deflection Temperature @66psi (0.455 MPa) | 79 °C | 172 °F | D 648 |
| Rockwell Hardness | | 76 R | D 785 |
| Notched Izod @ 23°C | 75 J/m | 1.4 ft-lb/in | D 256 |
| Gardner Impact @ 23°C | >36 J | >320in-lb | D 5420 |

Regulatory

FDA – 21 CFR 177.1520(c) 3.2a

USP <88> Class VI, USP<85>, and ISO 10993-5

Drug Master File listed

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