

12G50M

Random Copolymer for Injection Molding

Features: Clarified. Produced without animal derived components.

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

Applications: Medical components, syringes, closures, and connectors

Resin Properties

| | Typical Value (SI) | Typical Value (English) | ASTM Test Method |
|---------------------|------------------------|-------------------------|------------------|
| Melt Flow Rate | 50 g/10min | | D1238 |
| Density | 0.90 g/cm ³ | | D1505 |
| Melting Temperature | 155 -159 °C | 311 – 318 °F | D3418 |

Mechanical Properties

| | Typical Value (SI) | Typical Value (English) | ASTM Test Method |
|---|--------------------|-------------------------|------------------|
| Tensile Yield Strength | 38 MPa | 5500 psi | D 638 |
| Tensile Yield Elongation | 7.5 % | 7.5 % | D 638 |
| Flexural Modulus - Tangent | 1760 MPa | 255 kpsi | D 790 |
| Flexural Modulus - Secant | 1700 MPa | 247 kpsi | D 790 |
| Deflection Temperature @66psi (0.455 MPa) | 114 °C | 237 °F | D 648 |
| Notched Izod @ 23°C | 23 J/m | 0.4 ft-lb/in | D 256 |
| Gardner Impact @ 23°C | 6 J | 55 in-lb | D 5420 |
| Haze @ 25mil | 10 % | 10 % | D 1003 |

Regulatory

FDA – 21 CFR 177.1520(c) 3.1a

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

Drug Master File listed

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