



# 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 <sup>3</sup> |                         | D1505            |
| Melting Temperature | 155 -159 °C            | 311 – 318 °F            | D3418            |

## Mechanical Properties

|   | Typical Value (SI) | Typical Value (English) | ASTM Test Method |
|---|--------------------|-------------------------|------------------|
| Tensile Yield Strength                    | 35 MPa             | 5020 psi                | D 638            |
| Tensile Yield Elongation                  | 8.7 %              | 8.7 %                   | D 638            |
| Flexural Modulus - Tangent                | 1220 MPa           | 177 kpsi                | D 790            |
| Flexural Modulus - Secant                 | 1160 MPa           | 168 kpsi                | D 790            |
| Deflection Temperature @66psi (0.455 MPa) | 106 °C             | 223 °F                  | D 648            |
| Notched Izod @ 23°C                       | 22 J/m             | 0.4 ft-lb/in            | D 256            |
| Gardner Impact @ 23°C                     | 24 J               | 215 in-lb               | D 5420           |
| Haze @ 25mil                              | 11 %               | 11 %                    | 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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