

13G27M

Random Copolymer for Injection Molding

Features: Clarified. Produced without animal derived components

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

Applications: Syringes, medical device components, labware

Resin Properties

| | Typical Value (SI) | Typical Value (English) | ASTM Test Method |
|---------------------|------------------------|-------------------------|------------------|
| Melt Flow Rate | 27 g/10min | | D1238 |
| Density | 0.90 g/cm ³ | | 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 MPa | 3940 psi | D 638 |
| Tensile Yield Elongation | 9.9 % | 9.9 % | D 638 |
| Flexural Modulus - Tangent | 1040 MPa | 151 kpsi | D 790 |
| Flexural Modulus - Secant | 940 MPa | 136 kpsi | D 790 |
| Deflection Temperature @66psi (0.455 MPa) | 85 °C | 185 °F | D 648 |
| Rockwell Hardness | | 93 R | D 785 |
| Notched Izod @ 23°C | 40 J/m | 0.7 ft-lb/in | D 256 |
| Gardner Impact @ 23°C | >36 J | >320 in-lb | D 5420 |
| Haze @ 25mil | 7.3 % | 7.3 % | 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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