

11R12A

Specialty Homopolymer for Injection Molding

Features: Drop impact resistant. Produced without animal derived components or phthalates

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	12 g/10min		D1238
Density	0.90 g/cm ³		D1505
Melting Temperature	160 -165 °C	320 – 329 °F	D3418

Mechanical Properties

	Typical Value (SI)	Typical Value (English)	ASTM Test Method
Tensile Yield Strength	29.5 MPa	4275 psi	D 638
Tensile Yield Elongation	9.0 %	9.0 %	D 638
Flexural Modulus - Tangent	1068 MPa	155 kpsi	D 790
Flexural Modulus - Secant	1000 MPa	145 kpsi	D 790
Deflection Temperature @66psi (0.455 MPa)	82 °C	180 °F	D 648
Notched Izod @ 23°C	37 J/m	0.7 ft-lb/in	D 256
Gardner Impact @ 23°C	35.5 J	314 in-lb	D 5420

Regulatory

FDA – 21 CFR 177.1520(c) 1.1a & 3.4

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

Drug Master File listed

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