

13R27V

Random Copolymer for Injection Molding

Features: Clarified. Produced without animal derived components

Sterilization: Gamma radiation, EtO, and E-beam

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	29 MPa	4260 psi	D 638
Tensile Yield Elongation	11.8 %	11.8 %	D 638
Flexural Modulus - Tangent	1110 MPa	161 kpsi	D 790
Flexural Modulus - Secant	1030 MPa	149 kpsi	D 790
Deflection Temperature @66psi (0.455 MPa)	74 °C	166 °F	D 648
Rockwell Hardness		85 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	6.5 %	6.5 %	D 1003

Regulatory

FDA – 21 CFR 177.1520(c) 3.1a

USP <88> Class VI and ISO 10993-5

Drug Master File listed

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