

# P5M5R-083

## Random Copolymer for Injection Molding

**Features:** Mold release. Produced without animal derived components or phthalates

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

**Applications:** Medical devices and labware

## Resin Properties

	Typical Value (SI)	Typical Value (English)	ASTM Test Method
Melt Flow Rate	27 g/10min		D1238
Density	0.90 g/cm <sup>3</sup>		D1505
Melting Temperature	145 -152 °C	293 – 306 °F	D3418

## Mechanical Properties

	Typical Value (SI)	Typical Value (English)	ASTM Test Method
Tensile Yield Strength	26 MPa	3750 psi	D 638
Tensile Yield Elongation	15 %	15 %	D 638
Flexural Modulus - Secant	759 MPa	110 kpsi	D 790
Deflection Temperature @66psi (0.455 MPa)	77 °C	171 °F	D 648
Rockwell Hardness		75 R	D 785
Notched Izod @ 23°C	48 J/m	0.9 ft-lb/in	D 256
Gardner Impact @ 23°C	>36 J	>320 in-lb	D 5420

## Regulatory

FDA – 21 CFR 177.1520(c) 3.1a

USP <88> Class VI

Drug Master File listed

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