

# P5M6K-101

## Random Copolymer for Injection Molding

**Features:** Clarified. Produced without animal derived components

**Applications:** Parts requiring clarity

## Resin Properties

	Typical Value (SI)	Typical Value (English)	ASTM Test Method
Melt Flow Rate	35 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	28.6 MPa	4100 psi	D 638
Tensile Yield Elongation	11.5 %	11.5 %	D 638
Flexural Modulus - Tangent	1040 MPa	150 kpsi	D 790
Flexural Modulus - Secant	990 MPa	144 kpsi	D 790
Deflection Temperature @66psi (0.455 MPa)	82 °C	180 °F	D 648
Rockwell Hardness		90 R	D 785
Notched Izod @ 23°C	61 J/m	1.1 ft-lb/in	D 256
Gardner Impact @ 23°C	>36 J	>320 in-lb	D 5420
Haze @ 25mil	7 %	7 %	D 1003

This product not recommended for autoclave sterilization in the presence of aqueous solutions

## Regulatory

FDA – 21 CFR 177.1520(c) 3.2a

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