

P5M6K-048

Random Copolymer for Injection Molding

Features: Clarified. Produced without animal derived components or phthalates

Applications: Consumer and healthcare products

Resin Properties

	Typical Value (SI)	Typical Value (English)	ASTM Test Method
Melt Flow Rate	35 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	3900 psi	D 638
Tensile Yield Elongation	11 %	11 %	D 638
Flexural Modulus - Secant	1050 MPa	153 kpsi	D 790
Deflection Temperature @66psi (0.455 MPa)	84 °C	183 °F	D 648
Rockwell Hardness		93 R	D 785
Notched Izod @ 23°C	63 J/m	1.2 ft-lb/in	D 256
Gardner Impact @ 23°C	>36 J	>320 in-lb	D 5420
Haze @ 25mil	6 %	6 %	D 1003

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

Regulatory

FDA – 21 CFR 177.1520(c) 3.1a	USP <88> Class VI
Drug Master File listed	UL Certified 94HB

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