

# P9G4M-065

## Specialty Random Copolymer for Injection Molding

**Features:** Good clarity with mold release. Produced without animal derived components or phthalates.

**Applications:** Caps and closures requiring good clarity and mold release

## Resin Properties

	Typical Value (SI)	Typical Value (English)	ASTM Test Method
Melt Flow Rate	20 g/10min		D1238
Density	0.90 g/cm <sup>3</sup>		D1505
Melting Temperature	160 -165 °C	320 – 329 °F	D3418

## Mechanical Properties

	Typical Value (SI)	Typical Value (English)	ASTM Test Method
Tensile Yield Strength	26.5 MPa	3840 psi	D 638
Tensile Yield Elongation	12.1 %	12.1 %	D 638
Flexural Modulus - Tangent	990 MPa	144 kpsi	D 790
Flexural Modulus - Secant	892 MPa	129 kpsi	D 790
Deflection Temperature @66psi (0.455 MPa)	78 °C	172 °F	D 648
Rockwell Hardness		70 R	D 785
Notched Izod @ 23°C	231 J/m	4.3 ft-lb/in	D 256
Notched Izod @ 0°C	39 J/m	0.7 ft-lb/in	D 256
Gardner Impact @ 23°C	>36 J	>320 in-lb	D 5420
Gardner Impact @ 0°C	23 J	207 in-lb	D 5420
Haze @ 25mil	7 %	7 %	D 1003
Haze @ 50mil	11 %	11 %	D 1003

## Regulatory

FDA – 21 CFR 177.1520(c) 3.1a & 3.4

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