

# P4C5Z-027

## Homopolymer for Injection Molding

**Features:** Produced without animal derived components or phthalates

**Applications:** Consumer products, caps, and closures

## 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	37 MPa	5400 psi	D 638
Tensile Yield Elongation	8 %	8 %	D 638
Flexural Modulus - Secant	1390 MPa	202 kpsi	D 790
Deflection Temperature @66psi (0.455 MPa)	102 °C	216 °F	D 648
Rockwell Hardness		109 R	D 785
Notched Izod @ 23°C	20 J/m	0.4 ft-lb/in	D 256
Gardner Impact @ 23°C	3 J	27 in-lb	D 5420

## Regulatory

FDA – 21 CFR 177.1520(c) 1.1a	USP <88> Class VI
Drug Master File listed	UL Certified 94HB

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