



# P4C5B-181B

## Homopolymer for Injection Molding

**Features:** Nucleated and antistatic agent. Produced without animal derived components or phthalates

**Applications:** Caps & closures, cutlery

## 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	39 MPa	5600 psi	D 638
Tensile Yield Elongation	5.9 %	5.9 %	D 638
Flexural Modulus - Tangent	2030 MPa	294 kpsi	D 790
Flexural Modulus - Secant	1900 MPa	276 kpsi	D 790
Deflection Temperature @66psi (0.455 MPa)	121 °C	249 °F	D 648
Rockwell Hardness		103 R	D 785
Notched Izod @ 23°C	33 J/m	0.6 ft-lb/in	D 256
Gardner Impact @ 23°C	2 J	18 in-lb	D 5420

## Regulatory

FDA – 21 CFR 177.1520(c) 1.1a

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