

P4C5N-046



Homopolymer for Injection Molding

Features: Nucleated and good dimensional stability. Produced without animal derived components or phthalates

Applications: Contact lens molds and cases

Resin Properties

	Typical Value (SI)	Typical Value (English)	ASTM Test Method
Melt Flow Rate	20 g/10min		D1238
Density	0.90 g/cm ³		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	8 %	8 %	D 638
Flexural Modulus - Secant	1590 MPa	230 kpsi	D 790
Deflection Temperature @66psi (0.455 MPa)	108 °C	226 °F	D 648
Rockwell Hardness		110 R	D 785
Notched Izod @ 23°C	30 J/m	0.5 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, USP<85>, and ISO 10993-5

Drug Master File listed

UL Certified 94HB

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