



P4C6B-194

Homopolymer for Injection Molding

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

Applications: Pen barrels, consumer 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 | 160 -165 °C | 320 – 329 °F | D3418 |

Mechanical Properties

| | Typical Value (SI) | Typical Value (English) | ASTM Test Method |
|---|--------------------|-------------------------|------------------|
| Tensile Yield Strength | 36 MPa | 5200 psi | D 638 |
| Tensile Yield Elongation | 9 % | 9 % | D 638 |
| Flexural Modulus - Tangent | 1484 MPa | 218 kpsi | D 790 |
| Flexural Modulus - Secant | 1399 MPa | 203 kpsi | D 790 |
| Deflection Temperature @66psi (0.455 MPa) | 109 °C | 228 °F | D 648 |
| Rockwell Hardness | | 103 R | D 785 |
| Notched Izod @ 23°C | 30 J/m | 0.6 ft-lb/in | D 256 |
| Gardner Impact @ 23°C | 6 J | 53 in-lb | D 5420 |

Regulatory

FDA – 21 CFR 177.1520(c) 1.1a

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