

# P4C6Z-022

## Homopolymer for Injection Molding

**Features:** 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 <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                  | 9 %                | 9 %                     | D 638            |
| Flexural Modulus - Secant                 | 1311 MPa           | 190 kpsi                | D 790            |
| Deflection Temperature @66psi (0.455 MPa) | 109 °C             | 228 °F                  | D 648            |
| Rockwell Hardness                         |                    | 109 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

UL Certified 94HB

Drug Master File listed

118 Huntsman Way, Longview, TX 75602 – (903) 239-5332

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