

POLYPROPYLENE



P4G4Z-011

DESCRIPTION: Homopolymer for injection molding.

FEATURES: Produced without animal derived components or phthalates.

APPLICATIONS: Consumer and healthcare products.

| RESIN PROPERTIES | TYPICAL VALUE (SI) | TYPICAL VALUE (ENGLISH) | ASTM TEST METHOD |
|---------------------------|------------------------|-------------------------|------------------|
| Melt Flow Rate | 12 g/10 min | | D 1238 |
| Density | 0.90 g/cm ³ | | D 1505 |
| Melting Temperature Range | 160-165 °C | 320-329 °F | D 3418 |

| MECHANICAL PROPERTIES | | | |
|--|----------|--------------|--------|
| Tensile | | | |
| Yield Strength | 37 MPa | 5400 psi | D 638 |
| Yield Elongation | 8.0 % | 8.0 % | |
| Flexural Modulus | | | |
| 1% Secant | 1480 MPa | 214 kpsi | D 790 |
| Deflection Temperature @ 66 psi (.455 MPa) | 96 °C | 205 °F | D 648 |
| Rockwell Hardness | | 110 R | D 785 |
| Notched Izod @ 23°C | 20 J/m | 0.4 ft-lb/in | D 256 |
| Gardner Impact @ 23°C | 2 J | 18 in-lb | D 5420 |

Sept. 15

Regulatory

| | |
|--------------------------------|--------------------------------|
| FDA – 21CFR 177.1520 (c) 1.1a. | UL certified 94HB |
| Drug Master File listed | USP <88> Class VI and USP<661> |

Notice regarding medical applications:

This Flint Hills product meets certain requirements for use in medical applications. It is the responsibility of the medical device or pharmaceutical manufacturer to determine that this Flint Hills product is safe, lawful and technically suitable for the intended use. Flint Hills encourages its customers to review their application with a Flint Hills technical representative to ensure that this product is not used in ways for which it was not intended. Flint Hills makes no warranties (express or implied), promises or guarantees concerning the suitability of this product for use in any given medical application.

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