

# POLYPROPYLENE



## P4G3Z-039

**DESCRIPTION:** Homopolymer for injection molding.

**FEATURES:** Produced without animal derived components or phthalates.

**APPLICATIONS:** Consumer and healthcare products, caps and closures.

RESIN PROPERTIES	TYPICAL VALUE (SI)	TYPICAL VALUE (ENGLISH)	ASTM TEST METHOD
Melt Flow Rate	5 g/10 min		D 1238
Density	0.90 g/cm <sup>3</sup>		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	9.0 %	9.0 %	
Flexural Modulus 1% Secant	1490 MPa	216 kpsi	D 790
Deflection Temperature @ 66 psi (.455 MPa)	96 °C	205 °F	D 648
Rockwell Hardness		106 R	D 785
Notched Izod @ 23°C	50 J/m	0.9 ft-lb/in	D 256
Gardner Impact @ 23°C	6 J	50 in-lb	D 5420

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### Regulatory

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

### **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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