

P5M4K-046

Random Copolymer for Injection Molding

Features: Clarified. Produced without animal derived components or phthalates

Applications: Caps and closures, containers, consumer products

Resin Properties

	Typical Value (SI)	Typical Value (English)	ASTM Test Method
Melt Flow Rate	10 g/10min		D1238
Density	0.90 g/cm ³		D1505
Melting Temperature	145 -152 °C	293 – 306 °F	D3418

Mechanical Properties

	Typical Value (SI)	Typical Value (English)	ASTM Test Method
Tensile Yield Strength	33 MPa	4800 psi	D 638
Tensile Yield Elongation	11 %	11 %	D 638
Flexural Modulus - Secant	1110 MPa	161 kpsi	D 790
Deflection Temperature @66psi (0.455 MPa)	82 °C	180 °F	D 648
Rockwell Hardness		94 R	D 785
Notched Izod @ 23°C	70 J/m	1.3 ft-lb/in	D 256
Gardner Impact @ 23°C	>36 J	>320 in-lb	D 5420
Haze @ 25mil	6.5 %	6.5 %	D 1003

Regulatory

FDA – 21 CFR 177.1520(c) 3.1a

USP <88> Class VI

Drug Master File listed

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The data and information represented herein refer to typical values obtained in our laboratories by the methods or apparatuses indicated and should be so considered. Since processing variables are a major factor in product performance, this information should serve only as a guide. Since customers' testing conditions are outside our control, the reproducibility of our data in a customer's testing facility is not guaranteed. Customer should confirm results under its testing conditions. There is no implied warranty of merchantability or fitness for a particular purpose. Establishing satisfactory performance of the product for the intended application is the customer's sole responsibility. No warranty is given concerning the existence or non-existence of any patents claiming any pertinent subject matter presented herein. The Company assumes no obligation, express or implied, or liability for use of or reliance on the information and data presented. FHR disclaims all product warranties expressed or implied, including warranties of fitness for particular purpose or of merchantability. Further, this product is not intended for use in the manufacture of any form of implanted medical or surgical device. © 2020 Flint Hills Resources. All rights reserved.