



FHR Polypropylene P5M6K-048

Flint Hills Resources, LP - Polypropylene Random Copolymer

Monday, August 31, 2015

General Information

Product Description

DESCRIPTION: Random Copolymer

FEATURES: Excellent clarity and processing. Product does not contain animal derived components. Phthalate-free.

APPLICATIONS: Injection molding: high clarity parts and medical devices

General

Material Status	• Commercial: Active
Regional Availability	• North America
Features	• Good Processability • No Animal Derived Components • Random Copolymer • High Clarity • Non-Phthalate Plasticizer
Uses	• Medical/Healthcare Applications • Transparent or Translucent Parts
Agency Ratings	• DMF Unspecified Rating • FDA 21 CFR 177.1520(c) 3.1a • USP Class VI
RoHS Compliance	• Contact Manufacturer
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	0.900 g/cm ³	0.900 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	35 g/10 min	35 g/10 min	ASTM D1238
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength (Yield)	3930 psi	27.1 MPa	ASTM D638
Tensile Elongation (Yield)	11 %	11 %	ASTM D638
Flexural Modulus - Tangent	152000 psi	1050 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	1.2 ft-lb/in	63 J/m	ASTM D256
Gardner Impact (73°F (23°C))	320 in-lb	36.2 J	ASTM D5420
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Rockwell Hardness (R-Scale)	90	90	ASTM D785
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed	183 °F	84.0 °C	ASTM D648
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating	HB	HB	UL 94

Additional Information

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 or tested. Flint Hills makes no warranties (express or implied), promises or guarantees concerning the suitability of this product for use in any given medical application. Not intended for use in the manufacture of any form of implanted medical or surgical device.

This product is not recommended for autoclave sterilization processes in the presence of aqueous solutions.

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PolyOne Distribution Company

www.PolyOneDistribution.com

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Notes

¹ Typical properties: these are not to be construed as specifications.