

FHR Polypropylene P5M6K-080

Polypropylene Random Copolymer

Flint Hills Resources, LP

Message:

DESCRIPTION: Random Copolymer
FEATURES: Clarified, Gamma Radiation Sterilizable. Product does not contain animal derived components. Phthalate-free.
APPLICATIONS: Injection molding: Disposable Syringes. This product is not recommended for autoclave sterilization processes in the presence of aqueous solutions.

General Information			
Additive	Clarifier		
Features	Radiation disinfection		
	Definition, high		
	No kinetic components		
Uses	Subcutaneous syringe parts		
Agency Ratings	DMF not rated		
	FDA 21 CFR 177.1520(c) 3.1a		
	ISO 10993 Part 5		
	USP Class VI		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	27	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	85		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	31.0	MPa	ASTM D638
Tensile Elongation (Yield)	14	%	ASTM D638
Flexural Modulus			ASTM D790
1% secant	966	MPa	ASTM D790
Tangent	1000	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	75	J/m	ASTM D256
Dart Drop Impact (23°C)	27.0	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	81.0	°C	ASTM D648
Optical	Nominal Value	Unit	Test Method
Haze (1270 µm)	13	%	ASTM D1003

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.

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Susheng Import & Export Trading Co., Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

