

FHR Polypropylene 23R2A

Polypropylene Random Copolymer

Flint Hills Resources, LP

Message:

DESCRIPTION: Random Copolymer
FEATURES: High contact clarity, blush resistant, good impact, and stress crack resistant. Resistant to radiation exposure. Product does not contain animal derived components.
APPLICATIONS: Blow Molded: Radiation sterilizable vials and bottles

General Information			
Features	Anti-whiteness		
	Radiation disinfection		
	High ESCR (Stress Cracking Resistance)		
	Anti-gamma radiation		
	Impact resistance, good		
	Definition, high		
	Transparent appearance		
	No kinetic components		
	Random copolymer		
Uses	Blow molding applications		
	Bottle		
	Small bottle		
	Medical/nursing supplies		
Agency Ratings	DMF not rated		
	FDA 21 CFR 177.1520(c) 3.2a		
	ISO 10993 Part 5		
	USP 661		
	USP 85		
	USP 88		
RoHS Compliance	USP Class VI		
	Contact manufacturer		
Forms	Particle		
Processing Method	Blow 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)	2.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method

Rockwell Hardness (R-Scale)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1020	MPa	ASTM D638
Tensile Strength (Yield)	27.0	MPa	ASTM D638
Tensile Elongation (Break)	> 700	%	ASTM D638
Flexural Modulus	940	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	80	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	90.0	°C	ASTM D648
Additional Information			

This product should be stored in dry conditions at temperatures below 50°C and protected from UV and nitrous oxide exposure. Improper storage conditions can initiate premature degradation of odor, color, and physical properties. 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

