

FHR Polypropylene 23M2A

Polypropylene Random Copolymer

Flint Hills Resources, LP

Message:

DESCRIPTION: Random Copolymer
FEATURES: High contact clarity, blush resistant, good impact, and stress crack resistant, good auto-clave stability, and low extractability. Product does not contain animal derived components.
APPLICATIONS: Suitable for use in food & medical products such as: blow molded containers for irrigation, parenteral, hemodialysis and topical solutions

General Information			
Features	Low extract		
	Anti-whiteness		
	High ESCR (Stress Cracking Resistance)		
	Impact resistance, good		
	High pressure heating resistance		
	Transparent appearance		
	No kinetic components		
	Random copolymer		
Uses	Blow molding applications		
	Non-specific food applications		
	Container		
	Food container		
	Medical/nursing supplies		
Agency Ratings	DMF not rated		
	FDA 21 CFR 177.1520(c) 3.2a		
	ISO 10993 Part 5		
	USP Class VI		
RoHS Compliance	Contact manufacturer		
Forms	Particle		
Processing Method	Blow molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm ³	ASTM D792
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)	85		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1100	MPa	ASTM D638

Tensile Strength (Yield)	27.5	MPa	ASTM D638
Tensile Elongation (Yield)	15	%	ASTM D638
Flexural Modulus	1000	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	82.0	°C	ASTM D648
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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