

# FHR Polypropylene P5M2Z-012

Polypropylene Random Copolymer

Flint Hills Resources, LP

Message:

FHR Polypropylene P5M2Z-012 is a polypropylene random copolymer (PP random copolymer) product. It can be processed by film extrusion or blow molding and is available in North America. The application areas of FHR Polypropylene P5M2Z-012 include medical/health care, film and food contact applications.

Features include:

Copolymer

Transparency

General Information			
Features	Definition, high		
	No kinetic components		
	Random copolymer		
Uses	Films		
Agency Ratings	DMF not rated		
	FDA 21 CFR 177.1520(c) 3.1a		
	USP Class VI		
RoHS Compliance	Contact manufacturer		
Forms	Particle		
Processing Method	Film extrusion		
	Blow molding		
Physical	Nominal Value	Unit	Test Method
Density	0.894	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.9	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	84		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	28.0	MPa	ASTM D638
Tensile Elongation (Yield)	12	%	ASTM D638
Flexural Modulus			ASTM D790
1% secant	820	MPa	ASTM D790
Tangent	880	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	70	J/m	ASTM D256
Dart Drop Impact (23°C)	28.0	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	76.0	°C	ASTM D648
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#### 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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