

# FHR Polypropylene P4C5B-030

Flint Hills Resources, LP - Polypropylene Homopolymer

Tuesday, November 9, 2021

## General Information

### Product Description

DESCRIPTION: Homopolymer for injection molding.

FEATURES: Nucleated and antistatic agent. Produced without animal derived components or phthalates.

APPLICATIONS: Medical closures and housewares.

### General

Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Additive	• Antistatic	• Nucleating Agent	
Features	• Antistatic • Homopolymer	• No Animal Derived Components • Nucleated	
Uses	• Closures	• Household Goods	• Medical/Healthcare Applications
Agency Ratings	• DMF Unspecified Rating • FDA 21 CFR 177.1520(c) 1.1a	• USP 88 • USP Class VI	
RoHS Compliance	• Contact Manufacturer		
Forms	• Pellets		
Processing Method	• Injection Molding		

## ASTM & ISO Properties<sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	5370	psi	ASTM D638
Tensile Elongation (Yield)	9.0	%	ASTM D638
Flexural Modulus - 1% Secant	205000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	0.56	ft-lb/in	ASTM D256
Gardner Impact (73°F)	97.4	in-lb	ASTM D5420
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	109		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	228	°F	ASTM D648
Peak Melting Temperature	320 to 329	°F	ASTM D3418
Flammability	Nominal Value	Unit	Test Method
Flame Rating	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. Flint Hills makes no warranties (express or implied), promises or guarantees concerning the suitability of this product for use in any given medical application.