

FHR Polypropylene H0500HN

Polypropylene Homopolymer

Flint Hills Resources, LP

Message:

FHR Polypropylene H0500HN is a polypropylene homopolymer (PP Homopoly) product. It can be processed by injection molding and is available in North America. The application areas of FHR Polypropylene H0500HN include medical/health care and food contact applications.

- Features include:
- flame retardant/rated flame
 - nucleation
 - Homopolymer
 - Heat resistance

General Information			
UL YellowCard	E336707-100613145		
Additive	Nucleating agent		
Features	Nucleated		
	Homopolymer		
	Good heat aging resistance		
	No kinetic components		
Uses	Medical/nursing supplies		
Agency Ratings	DMF not rated		
	FDA 21 CFR 177.1520(c) 1.1		
	ISO 10993 Part 5		
	USP Class VI		
RoHS Compliance	Contact manufacturer		
Forms	Particle		
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)	5.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	111		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	37.0	MPa	ASTM D638
Tensile Elongation (Yield)	7.7	%	ASTM D638
Flexural Modulus			ASTM D790
1% secant	1560	MPa	ASTM D790
Tangent	1650	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (23°C)	40	J/m	ASTM D256
Dart Drop Impact (23°C)	6.00	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	116	°C	ASTM D648
Flammability	Nominal Value		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 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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