

FHR Polypropylene P5M6K-048

Flint Hills Resources, LP - Polypropylene Random Copolymer

Wednesday, April 10, 2019

	General	Informatio	n					
Product Description								
DESCRIPTION: Random copolymer for injection	ction molding.							
FEATURES: Clarified. Produced without ani	mal derived components or	phthalates.						
APPLICATIONS: Consumer and healthcare	products.							
General								
Material Status	Commercial: Active							
Regional Availability	North America							
Additive	Clarifier							
Features	High Clarity	• No	No Animal Derived Components Random Copolymer					
Uses	Consumer Applications	• Me	Medical/Healthcare Applications					
Agency Ratings	DMF Unspecified Rating	• US	> 88					
	• FDA 21 CFR 177.1520(c) 3.1a • USP Class VI							
RoHS Compliance	Contact Manufacturer							
Forms	• Pellets							
Processing Method	Injection Molding							
	ASTM & IS	O Propert	ies ¹					
Physical	Typical Value	(English)	Typical Value	(SI)	Test Method			
Density	0.900	g/cm³	0.900	g/cm³	ASTM D1505			
Molt Mass Flow Pate (MED) (230°C/2 16 kg	\ 25	a/10 min	25	a/10 min	A CTM D1220			

ASTM & ISO Properties ¹									
Physical	Typical Value	(English)	Typical Value	(SI)	Test Method				
Density	0.900	g/cm³	0.900	g/cm³	ASTM D1505				
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	35	g/10 min	35	g/10 min	ASTM D1238				
Mechanical	Typical Value	(English)	Typical Value	(SI)	Test Method				
Tensile Strength (Yield)	3930	psi	27.1	MPa	ASTM D638				
Tensile Elongation (Yield)	11	%	11	%	ASTM D638				
Flexural Modulus - Tangent	152000	psi	1050	MPa	ASTM D790				
Impact	Typical Value	(English)	Typical Value	(SI)	Test Method				
Notched Izod Impact (73°F (23°C))	1.2	ft·lb/in	63	J/m	ASTM D256				
Gardner Impact (73°F (23°C))	> 320	in·lb	> 36.2	J	ASTM D5420				
Hardness	Typical Value	(English)	Typical Value	(SI)	Test Method				
Rockwell Hardness (R-Scale)	90		90		ASTM D785				
Thermal	Typical Value	(English)	Typical Value	(SI)	Test Method				
Deflection Temperature Under Load					ASTM D648				
66 psi (0.45 MPa), Unannealed	183	°F	84.0	°C					
Peak Melting Temperature	293 to 306	°F	145 to 152	°C	ASTM D3418				
Flammability	Typical Value	(English)	Typical Value	(SI)	Test Method				
Flame Rating	HB		НВ		UL 94				
Optical	Typical Value	(English)	Typical Value	(SI)	Test Method				
Haze (25.0 mil (635 μm))	6.00	%	6.00	%	ASTM D1003				

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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. Flint Hills makes no warranties (express or implied), promises or guarantees concerning the suitability of this product for use in any given medical application.

Notes

¹ Typical properties: these are not to be construed as specifications.

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