

## FHR Polypropylene P5M6K-048

### Flint Hills Resources, LP - Polypropylene Random Copolymer

Wednesday, December 8, 2021

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### **Product Description**

DESCRIPTION: Random copolymer for injection molding.

FEATURES: Clarified. Produced without animal derived components or phthalates.

APPLICATIONS: Consumer and healthcare products.

General		
Material Status	Commercial: Active	
Regional Availability	• Europe	North America
Additive	<ul> <li>Clarifier</li> </ul>	
Features	High Clarity	No Animal Derived Components    Random Copolymer
Uses	<ul> <li>Consumer Applications</li> </ul>	Medical/Healthcare Applications
Agency Ratings	<ul><li>DMF</li><li>FDA 21 CFR 177.1520(c) 3.1a</li></ul>	USP 88 USP Class VI
RoHS Compliance	Contact Manufacturer	
Forms	• Pellets	
Processing Method	Injection Molding	

ASTM & ISO Properties <sup>1</sup>									
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 (25.00 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**

<sup>1</sup> Typical properties: these are not to be construed as specifications.