

# FHR Polypropylene P9G1Z-047

Polypropylene  
Flint Hills Resources, LP

Message:

DESCRIPTION: Polypropylene

FEATURES: Processing stability. Does not contain animal derived components.

APPLICATIONS: Extrusion: Thick sheeting

General Information			
UL YellowCard	E336707-100613181		
Features	Workability, good		
	No kinetic components		
Uses	Sheet		
Agency Ratings	DMF not rated		
	FDA 21 CFR 177.1520(c) 3.2a		
	USDA 3A		
	USP Class IV		
RoHS Compliance	Contact manufacturer		
Processing Method	Extrusion		
	Sheet extrusion molding		
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)	0.55	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	92		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	34.0	MPa	ASTM D638
Tensile Elongation (Yield)	14	%	ASTM D638
Flexural Modulus			ASTM D790
1% secant	1170	MPa	ASTM D790
Tangent	1240	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	91	J/m	ASTM D256
Dart Drop Impact (23°C)	29.0	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	96.0	°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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