

# FHR Polypropylene P9M7R-056

Polypropylene Homopolymer

Flint Hills Resources, LP

**PROSPECTOR**<sup>®</sup>

www.ulprospector.com

## Technical Data

### Product Description

DESCRIPTION: Specialty homopolymer polypropylene for injection molding.

FEATURES: Clarified with good dimensional stability. Produced without animal derived components or phthalates.

STERILIZATION: Gamma radiation, ETO, E-beam and autoclave.

APPLICATIONS: Medical components, labware and pipette tips.

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Technical Datasheet (English)</a>
Search for UL Yellow Card	• <a href="#">Flint Hills Resources, LP</a>
Availability	• Europe • North America
Additive	• Clarifier
Features	• Autoclave Sterilizable • Good Dimensional Stability • No Animal Derived Components • E-beam Sterilizable • High Clarity • Radiation Sterilizable • Ethylene Oxide Sterilizable • Homopolymer • Specialty Grade
Uses	• Labware • Medical/Healthcare Applications
Agency Ratings	• DMF Unspecified Rating • ISO 10993 Part 5 • USP 88 • FDA 21 CFR 177.1520(c) 1.1a • USP 85 • USP Class VI
RoHS Compliance	• Contact Manufacturer
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.900 g/cm <sup>3</sup>	0.900 g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	55 g/10 min	55 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	4790 psi	33.0 MPa	ASTM D638
Tensile Elongation (Yield)	9.5 %	9.5 %	ASTM D638
Flexural Modulus - 1% Secant	174000 psi	1200 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	0.69 ft·lb/in	37 J/m	ASTM D256
Gardner Impact (73°F (23°C))	314 in·lb	35.5 J	ASTM D5420
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-Scale)	103	103	ASTM D785
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed	221 °F	105 °C	ASTM D648
Peak Melting Temperature	320 to 329 °F	160 to 165 °C	ASTM D3418
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Haze (25.00 mil (635 µm))	8.50 %	8.50 %	ASTM D1003

### 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> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> Typical properties: these are not to be construed as specifications.

