FHR Polypropylene P9M7R-056

Polypropylene Homopolymer Flint Hills Resources, LP

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 ¹	Technical Datasheet (English)		
Search for UL Yellow Card	 Flint Hills Resources, LP 		
Availability	• Europe	North America	
Additive	Clarifier		
Features	Autoclave SterilizableE-beam SterilizableEthylene Oxide Sterilizable	Good Dimensional StabilityHigh ClarityHomopolymer	No Animal Derived ComponentsRadiation SterilizableSpecialty Grade
Uses	Labware	 Medical/Healthcare Applications 	
Agency Ratings	 DMF Unspecified Rating FDA 21 CFR 177.1520(c) 1.13 	 ISO 10993 Part 5 a USP 85 	USP 88USP 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 ³	0.900 g/cm ³	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			ASTM D648
66 psi (0.45 MPa), Unannealed	221 °F	105 °C	
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			

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 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.

² Typical properties: these are not to be construed as specifications.



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