

# FHR Polypropylene 13R9A

Polypropylene Random Copolymer

Flint Hills Resources, LP

Message:

FEATURES: Radiation resistant and good contact clarity. Autoclavable. Product does not contain animal derived components.

APPLICATIONS: Injection Molding: Radiation sterilizable medical devices and lab ware

General Information			
Features	Contact Clarity		
	No Animal Derived Components		
	Radiation (Gamma) Resistant		
	Radiation Sterilizable		
	Random Copolymer		
Uses	Labware		
	Medical/Healthcare Applications		
Agency Ratings	DMF Unspecified Rating		
	FDA 21 CFR 177.1520(c) 3.1a		
	ISO 10993 Part 5		
	USP 661		
	USP 85		
	USP 88		
RoHS Compliance	USP Class VI		
	Contact Manufacturer		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	9.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1110	MPa	ASTM D638
Tensile Strength (Yield)	28.0	MPa	ASTM D638
Tensile Elongation (Break)	> 700	%	ASTM D638
Flexural Modulus	965	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	60	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	90.0	°C	ASTM D648

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