

FHR Polypropylene P4G3Z-039

Flint Hills Resources, LP - Polypropylene Homopolymer

Tuesday, February 01, 2011

General Information							
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Material Status	Commercial: Active						
Regional Availability	North America						
Features	Good Stiffness	Homopolymer	 No Animal Derived Components 				
Uses	CapsClosures	Consumer ApplicationsMedical/Healthcare Applications					
Agency Ratings	 DMF Unspecified Rating 	• FDA 21 CFR 177.1520(c)	1.1a • USP Class VI				
RoHS Compliance	 Contact Manufacturer 						
Automotive Specifications	• GM GMP.PP.013						
Forms	• Pellets						
Processing Method	Injection Molding						

ASTM & ISO Properties 1								
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)	5.0	g/10 min	5.0	g/10 min	ASTM D1238			
Mechanical	Typical Value	(English)	Typical Value	(SI)	Test Method			
Tensile Strength (Yield)	5370	psi	37.0	MPa	ASTM D638			
Tensile Elongation (Yield)	9.0	%	9.0	%	ASTM D638			
Flexural Modulus - 1% Secant	216000	psi	1490	MPa	ASTM D790			
Impact	Typical Value	(English)	Typical Value	(SI)	Test Method			
Notched Izod Impact (73°F (23°C))	0.94	ft·lb/in	50	J/m	ASTM D256			
Gardner Impact (73°F (23°C))	53.1	in·lb	6.00	J	ASTM D5420			
Hardness	Typical Value	(English)	Typical Value	(SI)	Test Method			
Rockwell Hardness (R-Scale)	106		106		ASTM D785			
Thermal	Typical Value	(English)	Typical Value	(SI)	Test Method			
Deflection Temperature Under Load					ASTM D648			
66 psi (0.45 MPa), Unannealed	205	°F	96.0	°C				
Flammability	Typical Value	(English)	Typical Value	(SI)	Test Method			
Flame Rating - UL	НВ		НВ		UL 94			

Notes

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¹ Typical properties: these are not to be construed as specifications.