



FHR Polypropylene P4G3Z-039

Flint Hills Resources, LP - Polypropylene Homopolymer

Tuesday, February 01, 2011

General Information

General

Material Status	• Commercial: Active		
Regional Availability	• North America		
Features	• Good Stiffness	• Homopolymer	• No Animal Derived Components
Uses	• Caps • Closures	• Consumer Applications • Medical/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/cm ³	0.900 g/cm ³	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 66 psi (0.45 MPa), Unannealed	205 °F	96.0 °C	ASTM D648
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating - UL	HB	HB	UL 94

Notes

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