

FHR Polypropylene P4G4A-053

Polypropylene Homopolymer

Flint Hills Resources, LP

Message:

DESCRIPTION: Homopolymer
FEATURES: Good stiffness, long term heat aging (LTHA). Produced without animal derived components or phthalates.
APPLICATIONS: Injection molding: High heat resistance
REGULATORY:
FDA – 21 CFR 177.1520 (c) 1.1a.
UL Certified 94HB

General Information			
UL YellowCard	E336707-100613155		
Features	Good Heat Aging Resistance		
	Good Stiffness		
	High Heat Resistance		
	Homopolymer		
	No Animal Derived Components		
Agency Ratings	FDA 21 CFR 177.1520(c) 1.1a		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	108		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	37.0	MPa	ASTM D638
Tensile Elongation (Break)	8.0	%	ASTM D638
Flexural Modulus - 1% Secant	1480	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	20	J/m	ASTM D256
Gardner Impact (23°C)	2.00	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	96.0	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94

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