

CERTENE™ HI-2053

High Density Polyethylene

Muehlstein

Message:

HI-2053 is a certified prime grade Hexene copolymer designed for INJECTION MOLDING, general purpose applications. HI-2053 features easy processability, good impact strength and good toughness. HI-2053 applications include multi-cavity caps, closures and lids, food containers and toys. HI-2053 complies with FDA regulation 21CFR 177.1520(c) 3.2a.

General Information			
Features	Copolymer		
	hexene comonomer		
	Impact resistance, good		
	Workability, good		
	Good toughness		
	Compliance of Food Exposure		
	General		
Uses	Cover		
	Shield		
	Food container		
	General		
	Shell		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, Compression Molded, F50)	< 10.0	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, Compression Molded)	26.4	MPa	ASTM D638
Tensile Elongation ² (Break, Compression Molded)	280	%	ASTM D638
Flexural Modulus - 1% Secant (Compression Molded)	1170	MPa	ASTM D790B
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	73.3	°C	ASTM D648
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	121	°C	ASTM D1525

Additional Information

Test specimens from compression molded plaque according to ASTM D4976.

NOTE

1. 50 mm/min
2. 50 mm/min

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