

CERTENE™ HI-2053

Muehlstein - High Density Polyethylene

Wednesday, September 27, 2023

General Information

Product Description

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			
Material Status	Commercial: Active		
Availability	Latin America	North America	
Features	Copolymer	Good Impact Resistance	
	 Food Contact Acceptable 	 Good Processability 	Hexene Comonomer
	 General Purpose 	 Good Toughness 	
Uses	• Caps	Food Containers	• Lids
	 Closures 	 General Purpose 	 Toys
Agency Ratings	• FDA 21 CFR 177.1520(c) 3.2a		
Forms	• Pellets		
Processing Method	Injection Molding		

ASTM & ISO Properties ¹				
Nominal Value	Unit	Test Method		
0.953	g/cm³	ASTM D1505		
20	g/10 min	ASTM D1238		
		ASTM D1693B		
< 10.0	hr			
Nominal Value	Unit	Test Method		
26.4	MPa	ASTM D638		
280	%	ASTM D638		
1170	MPa	ASTM D790B		
Nominal Value	Unit	Test Method		
		ASTM D648		
73.3	$^{\circ}\mathrm{C}$			
< -75.0	°C	ASTM D746		
121	°C	ASTM D1525		
	Nominal Value 0.953 20 <10.0 Nominal Value 26.4 280 1170 Nominal Value 73.3 <-75.0	Nominal Value Unit		

Test specimens from compression molded plaque according to ASTM D4976.

Notes

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



² 50 mm/min