

CERTENE™ HI-1752

High Density Polyethylene
Muehlstein

Message:

HI-1752 is a certified prime copolymer that features easy processability, good impact strength, good resistance to low temperature, glossy surfaces, and good dimensional stability. HI-1752 typical applications include housewares, toys, and other general purpose molded applications. HI-1752 complies with U.S. FDA 21 CFR 177.1520 © 3.2a regulation.

General Information			
Features	Good dimensional stability		
	Highlight		
	High density		
	Copolymer		
	Impact resistance, good		
	Workability, good		
	Low temperature impact resistance		
Uses	Household goods		
	General		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	17	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, F50)	2.80	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	22.1	MPa	ASTM D638
Tensile Elongation ² (Break)	280	%	ASTM D638
Flexural Modulus - 2% Secant	814	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	273	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-105	°C	ASTM D746
Vicat Softening Temperature	254	°C	ASTM D1525
Additional Information			
Test specimens from compression molded plaque according to ASTM D 1928 Procedure C.			

NOTE

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

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