

CERTENE™ HI-752

High Density Polyethylene
Muehlstein

Message:

HI-752 is a certified prime copolymer designed for INJECTION MOLDING applications requiring good balance of mechanical properties. HI-752 features easy processability, good stiffness, good impact strength, high warpage resistance and excellent dimensional stability. HI-752 is especially suitable for pails, waste bins, bottle and fish crates, tote bins, fruit and vegetable trays, and handling materials where resistance to low temperature impact and toughness is required. HI-752 is not UV stabilized. Recommended processing temperature is 210 to 250°C. with mold @ 20 to 40°C.. HI-752 complies with FDA regulation 21CFR 177.1520 (c) 3.1 (a) + 3.2 (a) and with most international regulations concerning the use of Polyethylene in contact with food articles.

General Information			
Features	Good dimensional stability		
	Rigid, good		
	High density		
	Bending resistance		
	Impact resistance, good		
	Workability, good		
	Low temperature impact resistance		
	Good toughness		
	Compliance of Food Exposure		
Uses	Bottle		
	Barrel		
	Bracket tray		
	Loading box		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
	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)	7.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, Compression Molded, F50)	10.0	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, Compression Molded)	27.6	MPa	ASTM D638

Tensile Elongation ² (Break, Compression Molded)	1000	%	ASTM D638
Flexural Modulus - 1% Secant ³ (Compression Molded)	1100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength (Compression Molded)	56.7	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	75.0	°C	ASTM D648
Brittleness Temperature	-90.0	°C	ASTM D746
Vicat Softening Temperature	129	°C	ASTM D1525
Additional Information			
This Specimen was compression molded and was tested according to ASTM D1928 Procedure C.			
Injection	Nominal Value	Unit	
Processing (Melt) Temp	210 - 250	°C	
Mold Temperature	20.0 - 40.0	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	1.3 mm/min		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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