

CERTENE™ HI-960

High Density Polyethylene

Muehlstein

Message:

HI-960 is a certified prime homopolymer designed for molding applications requiring high warpage resistance and good balance of mechanical properties. HI-960 features easy processability, very good stiffness, good impact strength, high surface gloss, and excellent dimensional stability. HI-960 applications include crates, waste bins, pails, housewares, tote bins, fruit and vegetable trays, and structural foam. HI-960 recommended processing temperature is 210 to 240°C. with mmold @ 20 to 40°C.. HI-960 is not UV stabilized.

General Information			
Features	Good dimensional stability		
	Rigid, good		
	Highlight		
	High density		
	Homopolymer		
	Bending resistance		
	Impact resistance, good		
	Workability, good		
	Excellent appearance		
Uses	Structural Foam		
	Household goods		
	Barrel		
	Bracket tray		
	Loading box		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.960	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	9.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, Compression Molded, F50)	5.00	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, Compression Molded)	29.6	MPa	ASTM D638
Tensile Elongation ² (Break, Compression Molded)	1000	%	ASTM D638
Flexural Modulus - 1% Secant ³ (Compression Molded)	1520	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Tensile Impact Strength (Compression Molded)	60.9	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	79.0	°C	ASTM D648
Brittleness Temperature	-80.0	°C	ASTM D746
Vicat Softening Temperature	124	°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 - 240	°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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Recommended distributors for this material

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

