

# CERTENE™ HI-960U

High Density Polyethylene  
Muehlstein

Message:

HI-960U is a certified prime homopolymer designed for molding applications requiring high warpage resistance and good balance of mechanical properties. HI-960U features easy processability, very good stiffness, good impact strength, high surface gloss, and excellent dimensional stability. HI-960U applications include crates, waste bins, pails, housewares, tote bins, fruit and vegetable trays, and structural foam. HI-960U recommended processing temperature is 210 to 240°C. with mold @ 20 to 40°C.. HI-960U is UV stabilized.

General Information			
Additive	UV Stabilizer		
Features	Food Contact Acceptable		
	Good Dimensional Stability		
	Good Impact Resistance		
	Good Processability		
	Good Stiffness		
	Good UV Resistance		
	High ESCR (Stress Crack Resist.)		
	High Gloss		
	Homopolymer		
	Warp Resistant		
Uses	Crates		
	Food Service Applications		
	Household Goods		
	Pails		
	Structural Foam		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.960	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	9.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance <sup>1</sup> (50°C, 1.75 mm, 100% Igepal, Compression Molded, F50)	5.00	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield, Compression Molded)	30.0	MPa	ASTM D638
Tensile Elongation <sup>3</sup> (Break, Compression Molded)	> 1000	%	ASTM D638

Flexural Modulus - 1% Secant <sup>4</sup> (Compression Molded)	1520	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength (Compression Molded)	61.0	kJ/m <sup>2</sup>	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	79.0	°C	ASTM D648
Brittleness Temperature	< -80.0	°C	ASTM D746
Vicat Softening Temperature	124	°C	ASTM D1525
Injection	Nominal Value	Unit	
Processing (Melt) Temp	210 to 240	°C	
Mold Temperature	20.0 to 40.0	°C	
NOTE			
1.	Notched bent strip		
2.	50 mm/min		
3.	50 mm/min		
4.	1.3 mm/min		

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#### Recommended distributors for this material

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