

# CERTENE™ HI-762

High Density Polyethylene

Muehlstein

## Message:

HI-762 is a certified prime grade designed for INJECTION MOLDING of industrial container applications requiring superior Toughness and high Stiffness. HI-762 features very narrow molecular weight distribution, good process ability, Impact strength, excellent dimensional stability with low Warpage. HI-762 suggested applications include pails and crates, fruit and vegetable trays, sport articles, cases, and tote bins. HI-762 processing temperature is 220 to 250°C. with mold @ 20 to 40°C. HI-762 complies with FDA regulation 21CFR 177.1520 (c) 3.2 (a) and with most international regulations concerning the use of Polyethylene in contact with food articles.

General Information			
Features	Good dimensional stability Rigidity, high Bending resistance Workability, good Good toughness Compliance of Food Exposure Narrow molecular weight distribution		
Uses	Industrial application Container Food service sector Sporting goods Barrel Loading box		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.962	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	67		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield, Compression Molded)	30.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break, Compression Molded)	1500	%	ASTM D638
Flexural Modulus - 1% Secant <sup>3</sup> (Compression Molded)	1300	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (23°C, Compression Molded)	54	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	129	°C	ASTM D1525

#### Additional Information

Test specimens from compression molded plaque according to ASTM D 1928 Procedure C.

Injection	Nominal Value	Unit
Processing (Melt) Temp	220 - 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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#### Recommended distributors for this material

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