

# HIDEN® B500

High Density Polyethylene

YUHW A Korea Petrochemical Ind. Co., Ltd.

Message:

HIDEN® B500 is a High Density Polyethylene material. It is available in Asia Pacific for blow molding.

Important attributes of HIDEN® B500 are:

Chemical Resistant

Impact Resistant

Typical applications include:

Containers

Food Contact Applications

Industrial Applications

Medical/Healthcare

General Information			
Features	Good Chemical Resistance		
	Good Drawdown		
	Good Impact Resistance		
Uses	Containers		
	Industrial Applications		
	Medical/Healthcare Applications		
Agency Ratings	FDA Food Contact, Unspecified Rating		
Forms	Pellets		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.958	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.20	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.5 to 2.5	%	Internal Method
Water Absorption (Equilibrium)	< 0.010	%	ASTM D570
Environmental Stress-Cracking Resistance <sup>1</sup>	40.0	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	50		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	30.4	MPa	ASTM D638
Tensile Elongation (Break)	> 500	%	ASTM D638
Flexural Modulus	1030	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	> 490	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed)	68.0	°C	ASTM D648
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	122	°C	ASTM D1525
Peak Melting Temperature	134	°C	ASTM D3418
NOTE			

1. 10%

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#### Recommended distributors for this material

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