# CERTENE™ HWB-355

### High Density Polyethylene

Muehlstein

#### Message:

HWB-355 is a certified prime grade High Molecular Weight developed for BLOW MOLDING with high impact performance and increased toughness. HWB-355 features High-Swell, consistent processability, outstanding combination of ESCR, Impact strength, Stiffness, Creep resistance, and excellent chemical resistance. HWB-355 applications include 55 gallon drums, shipping containers, industrial tanks, agrochemicals, automotive parts, tool boxes, carrying cases, sport articles, ski and baggage car boxes. HWB-355 recommended processing temperature is 210 to 230°C.. HWB-355 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	Rigid, good High ESCR (Stress Cracking Resistance) High molecular weight Impact resistance, high Workability, good Good creep resistance Good chemical resistance			
	Good toughness			
	Compliance of Food Exposure			
Uses	Tools/Parts Box Industrial container Industrial water tank			
	Drum			
	Application in Automobile Field Sporting goods			
	Shipping container			
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a			
Forms	Particle			
Processing Method	Blow molding			
Physical	Nominal Value	Unit	Test Method	
Density	0.955	g/cm³	ASTM D1505	
Melt Mass-Flow Rate (MFR)			ASTM D1238	
190°C/2.16 kg	0.020	g/10 min	ASTM D1238	
190°C/21.6 kg	3.0	g/10 min	ASTM D1238	
Environmental Stress-Cracking Resistance <sup>1</sup> (50°C, 1.75mm, 10% Igepal, molding,				
F50)	> 500	hr	ASTM D1693A	
Mechanical	Nominal Value	Unit	Test Method	

Tensile Strength <sup>2</sup> (Yield, Compression Molded)	28.0	MPa	ASTM D638	
Tensile Elongation <sup>3</sup> (Break, Compression Molded)	820	%	ASTM D638	
Flexural Modulus - 1% Secant <sup>4</sup> (Compression Molded)	1180	MPa	ASTM D790	
Impact	Nominal Value	Unit	Test Method	
Notched Izod Impact (Compression Molded)	770	J/m	ASTM D256	
Thermal	Nominal Value	Unit	Test Method	
Deflection Temperature Under Load (1.8 MPa, Unannealed)	45.0	°C	ASTM D648	
Brittleness Temperature	< -90.0	°C	ASTM D746	
Vicat Softening Temperature	130	°C	ASTM D1525	
Additional Information	Nominal Value	Unit		
Blow Molding Temperature	210 - 230	°C		
Test specimens from compression molded plaque according to ASTM D 1928 Procedure 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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