

# Bapolene® B1150

High Density Polyethylene

Bamberger Polymers, Inc.

Message:

Bapolene B1150 is a high molecular weight HDPE designed for large container blowmolding and sheet extrusion for thermoforming applications. This resin offers excellent low temperature impact strength, ESCR, chemical resistance, creep resistance, and stiffness. This product meets the Food and Drug Administration requirements of 21CFR177.1520.

General Information			
Features	Low temperature strength		
	Rigidity, high		
	High ESCR (Stress Cracking Resistance)		
	High molecular weight		
	High density		
	Good creep resistance		
	Low temperature impact resistance		
	Good chemical resistance		
Uses	Industrial application		
	Agricultural application		
	Sheet		
	Container		
	Water tank		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Blow molding		
	Sheet extrusion molding		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	0.949	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	10	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			
100% Igepal, F50	600	hr	ASTM D1693A
100% Igepal, F50	600	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	25.5	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	600	%	ASTM D638
Flexural Modulus <sup>3</sup>	1180	MPa	ASTM D790

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-90.0	°C	ASTM D746
Additional Information			
Blow Molding Stock Temperature: 365 to 450°FThermoforming Surface Temperature: 315 to 365°F			
Extrusion	Nominal Value	Unit	
Melt Temperature	232 - 271	°C	
NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	Method I (three-point load)		

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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

