

Bapolene® HD2032

High Density Polyethylene

Bamberger Polymers, Inc.

Message:

Bapolene HD2032 is a high density polyethylene copolymer for blow molding applications. It is recommended for heavy duty applications that require excellent ESCR properties. This product meets the Food and Drug Administration requirements of 21CFR177.1520.

General Information			
Features	Copolymer		
	Detergent Resistant		
	General Purpose		
	Good Chemical Resistance		
	High Density		
	High ESCR (Stress Crack Resist.)		
Uses	General Purpose		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.949	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.20	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			
F50	100	hr	ASTM D1693A
F50	100	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	26.2	MPa	ASTM D638
Tensile Elongation ² (Break)	600	%	ASTM D638
Flexural Modulus ³	1120	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	290	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	72.8	°C	ASTM D648
Brittleness Temperature	-76.1	°C	ASTM D746
Vicat Softening Temperature	125	°C	ASTM D1525
NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	Method I (3 point load)		

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