

Bapolene® B0654

High Density Polyethylene

Bamberger Polymers, Inc.

Message:

Bapolene B0654 is a high molecular weight HDPE designed for large container blow molding. This resin offers excellent impact strength, ESCR and chemical resistance, creep resistance, and stiffness. This resin complies with FDA regulation 21 CFR 177.1520 for olefin polymers.

General Information			
Features	Good Chemical Resistance		
	Good Creep Resistance		
	Good Impact Resistance		
	Good Stiffness		
	High ESCR (Stress Crack Resist.)		
Uses	Drums		
	Industrial Containers		
	Industrial Parts		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.955	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, F50)	500	hr	ASTM D1693A
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	27.6	MPa	ASTM D638
Tensile Elongation ² (Break)	800	%	ASTM D638
Flexural Modulus - Tangent ³	1380	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	750	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	74.0	°C	ASTM D648
Brittleness Temperature	-100	°C	ASTM D746
Vicat Softening Temperature	130	°C	ASTM D1525
Extrusion	Nominal Value	Unit	
Melt Temperature	180 to 220	°C	
NOTE			

1.	20 mm/min
2.	20 mm/min
3.	Method I (3 point load)

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