

Bapolene® 1052

Low Density Polyethylene

Bamberger Polymers, Inc.

Message:

A medium flow general purpose injection molding resin with good gloss, toughness and good chemical resistance. This product meets FDA standards for food contact applications.

General Information			
Features	Food Contact Acceptable		
	General Purpose		
	Good Chemical Resistance		
	Good Toughness		
	High Gloss		
	Medium Flow		
Uses	Caps		
	Closures		
	Color Concentrates		
	General Purpose		
	Household Goods		
	Toys		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	50		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	221	MPa	ASTM D638
Tensile Strength ¹ (Yield)	10.3	MPa	ASTM D638
Tensile Elongation ² (Break)	350	%	ASTM D638
Flexural Modulus - Tangent ³	210	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	99.0	°C	ASTM D1525
NOTE			

1.	50 mm/min
2.	50 mm/min
3.	Method I (3 point load)

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