

# Prixene® EA200I54

High Density Polyethylene

POLYMAT

## Message:

Prixene ® EA200I54 is a high density, narrow molecular weight polyethylene copolymer intended for applications requiring a glossy surface finish and reasonably good impact strength and rigidity. It is characterized by a high melt index which allows easy processing of medium to thin-walled articles. The applications are of general use, taps, buckets, toys, household goods, containers for food, corks, etc.

The features presented are good dimensional stability, impact resistance, UV resistance, low deformation and high rigidity, low temperature impact and good processability.

The product form is in pellets and the apt process is for injection molding. The material complies with the FDA regulation title 21.CFR177.1520 (, c) 3.1a

General Information			
Features	Copolymer		
	Good Dimensional Stability		
	Good Impact Resistance		
	Good Processability		
	Good UV Resistance		
	High Density		
	High Gloss		
	High Rigidity		
Uses	Containers		
	Food Containers		
	General Purpose		
	Household Goods		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 100% Igepal)	2.00	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	28.3	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	150	%	ASTM D638
Flexural Modulus - Tangent	1140	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°C)	190	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	72.8	°C	ASTM D648
Vicat Softening Temperature	126	°C	ASTM D1525
NOTE			
1.	51 mm/min		
2.	51 mm/min		

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#### Recommended distributors for this material

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