

# Prixene® EA072S63

High Density Polyethylene  
POLYMAT

Message:

Prixene ® EA072S63 is a high density polyethylene homopolymer, developed specifically for blow molding food containers on reciprocating screw-type equipment. It exhibits excellent processing characteristics and extremely low odor in the finished container. Typical applications include containers for distilled water, milk, juice bottles and food containers. Containers of normal and large size.

The features presented are good ESCR, good impact resistance, easy processability, high rigidity and low taste and odor.

The product form is in pellets and the process is apt for molding by blown and extrusion. The material complies with FDA regulation title 21.CFR177.1520 (c) 3.1a 21.CFR177.1520 (c) 3.2a

General Information			
Features	Good Impact Resistance		
	Good Processability		
	High Density		
	High ESCR (Stress Crack Resist.)		
	High Rigidity		
	Homopolymer		
	Low to No Odor		
	Low to No Taste		
Uses	Bottles		
	Containers		
	Food Containers		
	Fruit Juice Bottles		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Pellets		
Processing Method	Blow Molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.963	g/cm³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.72	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	66		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1240	MPa	ASTM D638
Tensile Strength <sup>1</sup> (Yield)	31.0	MPa	ASTM D638

Tensile Elongation <sup>2</sup> (Break)	> 600	%	ASTM D638
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)	84.0	°C	ASTM D648
Vicat Softening Temperature	132	°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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