

# Prixene® EB450I18

Low Density Polyethylene

POLYMAT

## Message:

Prixene® EB450I18 is a low density resin for injection molding of high flow in which the required properties are in good balance of mechanical and low deformation. Typical applications include articles for the home, sports and general use, lids and injection molded parts of large flat area. The features presented are good processability, flexibility, high flow and clarity, low deformation and may be in contact with food. The product form is in pellets. The material complies with FDA regulation title 21.CFR177.1520 (. C) 2.2.

General Information			
Features	Food Contact Acceptable		
	Good Flexibility		
	Good Processability		
	High Clarity		
	High Flow		
	Low Density		
Uses	General Purpose		
	Household Goods		
	Lids		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.2		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	45	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	13.8	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	50	%	ASTM D638
Flexural Modulus - 1% Secant <sup>3</sup>	317	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	73.6	kJ/m <sup>2</sup>	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	0.00	°C	ASTM D746
Vicat Softening Temperature	88.1	°C	ASTM D1525
NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	1.3 mm/min		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

