

Prixene® EA003S56

High Density Polyethylene

POLYMAT

Message:

Prixene® EA003S56 is a high density polyethylene copolymer developed for blow molding applications. This product is recommended for use in applications which require a combination of high top load strength and good environmental stress crack resistance (ESCR). Typical applications include chlorine, detergents and household chemicals bottles. Pipes for drainage and non-pressurized pipelines.

The features presented are good strength and good ESCR.

This material meets the Food and Drug Administration requirements of 21CFR 177.1520.

General Information			
Features	Copolymer		
	Good Strength		
	High Density		
	High ESCR (Stress Crack Resist.)		
Uses	Bottles		
	Piping		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.955	g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.35	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1500	MPa	ASTM D638
Tensile Strength ¹ (Yield)	27.6	MPa	ASTM D638
Tensile Elongation ² (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)	74.0	°C	ASTM D648
Vicat Softening Temperature	131	°C	ASTM D1525
NOTE			
1.	51 mm/min		
2.	51 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

