

Prixene® EP005E50

High Molecular Weight Polyethylene

POLYMAT

Message:

Prixene® EP005E50 is a high molecular high density polyethylene copolymer grade specifically designed for blown film applications. This resin features a balance between toughness and stiffness, good impact properties with very low gel level. Typical applications are it can be used for producing heavy duty bags, grocery sacks, shopping bags, carrier- and T-shirt bags, and refuse bags, liners for multi-wall sacks and liners for frozen food meat.

The features presented are good rigidity for thin gauge applications film.

The product form is in pellets. HMW for blow film. The material complies with FDA regulation title 21.CFR177.1520.

General Information			
Features	Copolymer		
	Good Impact Resistance		
	High Molecular Weight		
	High Rigidity		
	Low Gel		
Uses	Bags		
	Film		
	Heavy-duty Bags		
	Liners		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Blown Film		
Physical	Nominal Value	Unit	Test Method
Density	0.949	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.057	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Secant Modulus			ASTM D882
1% Secant, MD	793	MPa	
1% Secant, TD	965	MPa	
Tensile Strength			ASTM D882
MD : Yield	26.2	MPa	
TD : Yield	23.4	MPa	
MD : Break	58.6	MPa	
TD : Break	34.5	MPa	
Tensile Elongation			ASTM D882
MD : Break	300	%	
TD : Break	420	%	
Total Energy Impact	2.78	J	ASTM D4272

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Recommended distributors for this material

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