

Prixene® EL200I25

Linear Low Density Polyethylene

POLYMAT

Message:

Prixene® EL200I25 is a linear low density polyethylene of butene-ethylene resin, designed for products to be injected and requires a good balance in low-temperature resistance, low deformation and good mechanical properties. Typical applications are for household items, health and medical, lids and frozen food packaging. It is also recommended for the manufacture of masterbatch which requires good flow.

The features presented are good tenacity, tear resistance, good flexibility, processability, high impact resistance, low deformation and impact resistance at low temperatures.

The product form is in pellets. LLDPE for injection molding and extrusion. The material complies with FDA regulation title 21.CFR177.1520 (. C) 3.1a

General Information			
Features	Good Flexibility		
	Good Impact Resistance		
	Good Processability		
	Good Tear Strength		
	Low Density		
	Low Temperature Resistant		
Uses	Food Packaging		
	Household Goods		
	Masterbatch		
	Medical/Healthcare Applications		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.925	g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (10% Igepal, F50)	< 1.00	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	13.8	MPa	ASTM D638
Tensile Elongation ² (Break)	350	%	ASTM D638
Flexural Modulus - 1% Secant ³	262	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	95.0	°C	ASTM D1525
Melting Temperature	125	°C	ASTM D3418

Injection	Nominal Value	Unit
Processing (Melt) Temp	180 to 220	°C
Mold Temperature	20.0 to 40.0	°C
Extrusion	Nominal Value	Unit
Melt Temperature	180 to 220	°C
NOTE		
1.	51 mm/min	
2.	51 mm/min	
3.	1.3 mm/min	

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Recommended distributors for this material

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