

TAISOX 6130F

Low Density Polyethylene
Formosa Plastics Corporation

Message:

TAISOX 6130F is a low density polyethylene material. This product is available in North America, Europe or Asia Pacific region. The processing method is blow molding.

The main features of TAISOX 6130F are:

Low shrinkage

Hard

beautiful

Typical application areas include:

Movie

application of coating

General Information			
Features	Low density		
	Optical		
	Low shrinkage		
	Medium hardness		
Uses	Films		
	Laminate		
Forms	Particle		
Processing Method	Blow molding		
Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.80	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	54		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	11.8	MPa	ASTM D638
Fracture	16.7	MPa	ASTM D638
Tensile Elongation (Break)	700	%	ASTM D638
Flexural Modulus	177	MPa	ASTM D790
Coefficient of Friction (Blown Film)	0.50		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
Film Thickness - Recommended / Available	1.2-4.7 mil (30-120 µ)		
secant modulus			ASTM D882
1% secant, MD: 50 µm, blown film	186	MPa	ASTM D882

1% secant, TD: 50 µm, blown film	211	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 50 µm, blown film	9.81	MPa	ASTM D882
TD: Yield, 50 µm, blown film	10.8	MPa	ASTM D882
MD: Broken, 50 µm, blown film	21.6	MPa	ASTM D882
TD: Broken, 50 µm, blown film	18.6	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 50 µm, blown film	380	%	ASTM D882
TD: Broken, 50 µm, blown film	600	%	ASTM D882
Dart Drop Impact (50 µm, Blown Film)	180	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 50 µm, blown film	230	g	ASTM D1922
TD: 50 µm, blown film	310	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-70.0	°C	ASTM D746
Vicat Softening Temperature	98.0	°C	ASTM D1525
Melting Temperature	113	°C	
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.0 µm, Blown Film)	70		ASTM D2457
Haze (50.0 µm, Blown Film)	10	%	ASTM D1003
Additional Information			

Film extrusion preparation parameters:

Screw: 60 mm

L/D: 30

Blow up ratio: 2.5

Temperature 160 to 200°C

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