TAISOX 6030F

Low Density Polyethylene

Formosa Plastics Corporation

Message:

TAISOX 6030F is a low density polyethylene material. This product is available in North America, Europe or Asia Pacific.
Typical application areas include:
Wrapping
Movie
Agriculture

General Information			
Features	Low density		
Uses	Films Agricultural application Shrinkable film		
Forms	Particle		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.922	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.27	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	51		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield	9.32	MPa	ASTM D638
Fracture	18.6	MPa	ASTM D638
Tensile Elongation (Break)	700	%	ASTM D638
Flexural Modulus	147	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	2-9.8 mil (50-250 µ)		
secant modulus			ASTM D882
1% secant, MD: 50 µm, blown film	167	MPa	ASTM D882
1% secant, TD: 50 µm, blown film	186	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 50 µm, blown film	9.81	MPa	ASTM D882
TD: Yield, 50 µm, blown film	9.81	MPa	ASTM D882
MD: Broken, 50 µm, blown film	24.5	MPa	ASTM D882
TD: Broken, 50 µm, blown film	21.6	MPa	ASTM D882
Tensile Elongation			ASTM D882

MD: Broken, 50 µm, blown film	380	%	ASTM D882
TD: Broken, 50 µm, blown film	580	%	ASTM D882
Dart Drop Impact (50 µm, Blown Film)	260	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 50 µm, blown film	200	g	ASTM D1922
TD: 50 µm, blown film	250	g	ASTM D1922
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	-70.0	°C	ASTM D746
Vicat Softening Temperature	96.0	°C	ASTM D1525
Melting Temperature	113	°C	
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, 50.0 µm, Blown Film)	50		ASTM D2457
Haze (50.0 µm, Blown Film)	15	%	ASTM D1003

Additional Information

Film extrusion preparation parameters:
Screw: 60 mm
L/D: 30
Blow up ratio: 2.5
Temperature160 to 200°C

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Recommended distributors for this material

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