

TAISOX 7140F

Ethylene Vinyl Acetate Copolymer

Formosa Plastics Corporation

Message:

TAISOX 7140F is an ethylene vinyl acetate copolymer (EVA) material. This product is available in North America, Europe or Asia Pacific.

The main features of TAISOX 7140F are:

Copolymer

Good processability

Good toughness

beautiful

Typical application areas include:

packing

Movie

cleaning application

General Information			
Features	Copolymer		
	Optical		
	Workability, good		
	Good toughness		
	General		
Uses	Packaging		
	Films		
	General		
	Bathroom products		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	0.934	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.70	g/10 min	ASTM D1238
Vinyl Acetate Content	14.0	wt%	
Hardness	Nominal Value	Unit	Test Method
	40		
Durometer Hardness (Shore A)	92		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	6.86	MPa	ASTM D638
Fracture	19.6	MPa	ASTM D638
Tensile Elongation (Break)	750	%	ASTM D638

Flexural Modulus	22.6	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	1.2-5.9 mil (30-150 μ)		
secant modulus			ASTM D882
1% secant, MD: 50 μm, blown film	36.3	MPa	ASTM D882
1% secant, TD: 50 μm, blown film	41.2	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 50 μm, blown film	4.90	MPa	ASTM D882
TD: Yield, 50 μm, blown film	3.92	MPa	ASTM D882
MD: Broken, 50 μm, blown film	30.4	MPa	ASTM D882
TD: Broken, 50 μm, blown film	27.5	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 50 μm, blown film	450	%	ASTM D882
TD: Broken, 50 μm, blown film	600	%	ASTM D882
Dart Drop Impact (50 μm, Blown Film)	620	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 50 μm, blown film	20	g	ASTM D1922
TD: 50 μm, blown film	48	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-70.0	°C	ASTM D746
Vicat Softening Temperature	75.0	°C	ASTM D1525
Melting Temperature	90.0	°C	
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.0 μm, Blown Film)	90		ASTM D2457
Haze (50.0 μm, Blown Film)	3.0	%	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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