



Formolene® FC100BW

Formosa Plastics Corporation, U.S.A. - Low Density Polyethylene

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General Information

Product Description

Formolene® FC100BW is a low density polyethylene offering good balance of optical and mechanical properties.

Formolene® FC100BW is formulated without slip and antiblock for use in film applications offering excellent extrusion processing and film optical properties.

General

Material Status	• Commercial: Active
Availability	• North America
Features	• Good Optical Properties • Good Processability • Low Density
Uses	• Bags • Foam • Food Packaging • Packaging • Blending • Laminates • Shrink Wrap • Compounding • Liners • Film
Agency Ratings	• EC 1907/2006 (REACH)
Processing Method	• Extrusion • Film Extrusion

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	2	mil	
Secant Modulus - 1% Secant, MD (1.5 mil, Blown Film)	30000	psi	ASTM D882
Secant Modulus - 1% Secant, TD (1.5 mil, Blown Film)	330000	psi	ASTM D882
Tensile Strength - MD (Yield, 1.5 mil, Blown Film)	1600	psi	ASTM D882
Tensile Strength - TD (Yield, 1.5 mil, Blown Film)	1600	psi	ASTM D882
Tensile Strength - MD (Break, 1.5 mil, Blown Film)	3600	psi	ASTM D882
Tensile Strength - TD (Break, 1.5 mil, Blown Film)	3200	psi	ASTM D882
Tensile Elongation - MD (Break, 1.5 mil, Blown Film)	330	%	ASTM D882
Tensile Elongation - TD (Break, 1.5 mil, Blown Film)	550	%	ASTM D882
Dart Drop Impact (1.5 mil, Blown Film)	80	g	ASTM D1709
Elmendorf Tear Strength - MD (1.5 mil, Blown Film)	150	g	ASTM D1922
Elmendorf Tear Strength - TD (1.5 mil, Blown Film)	120	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 1.50 mil, Blown Film)	63		ASTM D2457
Haze (1.50 mil, Blown Film)	6.10	%	ASTM D1003

Processing Information

Extrusion	Nominal Value	Unit
Melt Temperature	340 to 360	°F

Notes

¹ Typical properties: these are not to be construed as specifications.