



Formolene® FC151BW

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

Tuesday, November 5, 2019

General Information

Product Description

Formolene® FC151BW is a low density polyethylene offering good balance of optical properties and high stiffness.

Formolene® FC151BW is formulated without slip and antiblock for use in applications offering excellent extrusion processing and good balance of film stiffness and optical properties.

General

Material Status	• Commercial: Active		
Availability	• North America		
Features	• Good Optical Properties	• Good Processability	• Low Density
Uses	• Cast Film • Film	• Labels • Packaging	• Shrink Wrap
Agency Ratings	• EC 1907/2006 (REACH)		
Processing Method	• Cast Film • Coextrusion	• Extrusion • Film Extrusion	

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density	0.934	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (190°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	1	mil	
Secant Modulus - 1% Secant, MD (1.2 mil, Blown Film)	54000	psi	ASTM D882
Secant Modulus - 1% Secant, TD (1.2 mil, Blown Film)	54000	psi	ASTM D882
Tensile Strength - MD (Yield, 1.2 mil, Blown Film)	2200	psi	ASTM D882
Tensile Strength - TD (Yield, 1.2 mil, Blown Film)	2200	psi	ASTM D882
Tensile Strength - MD (Break, 1.2 mil, Blown Film)	3200	psi	ASTM D882
Tensile Strength - TD (Break, 1.2 mil, Blown Film)	2600	psi	ASTM D882
Tensile Elongation - MD (Break, 1.2 mil, Blown Film)	430	%	ASTM D882
Tensile Elongation - TD (Break, 1.2 mil, Blown Film)	560	%	ASTM D882
Dart Drop Impact (1.2 mil, Blown Film)	60	g	ASTM D1709
Elmendorf Tear Strength - MD (1.2 mil, Blown Film)	100	g	ASTM D1922
Elmendorf Tear Strength - TD (1.2 mil, Blown Film)	170	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 1.18 mil, Blown Film)	73		ASTM D2457
Haze (1.18 mil, Blown Film)	6.00	%	ASTM D1003

Processing Information

Extrusion	Nominal Value	Unit
Melt Temperature	284 to 338	°F

Notes

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