



Formolene® FC100BR

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

Tuesday, November 5, 2019

General Information

Product Description

Formolene® FC100BR is a low density polyethylene offering good balance of optical and mechanical properties.

Formolene® FC100BR is formulated with 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	• Low Density	
Uses	• Bags	• Film	• Liners
	• Blending	• Foam	• Packaging
	• Cast Film	• Food Packaging	• Shrink Wrap
	• Compounding	• Laminates	
Agency Ratings	• EC 1907/2006 (REACH)		
Processing Method	• Cast Film	• Compounding	• 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)	33000	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.