Formolene® FC104BR

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

Tuesday, November 5, 2019

General Information

Product Description

Formolene ® FC104BR is a low density polyethylene offering good balance of optical and mechanical properties.

Formolene ® FC104BR 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		
Additive	• Antiblock: 1000 ppm	• Slip: 750 ppm	
Features	• Antiblocking • Good Optical Properties	• Low Density • Slip	
Uses	• Bags • Blending • Film	• Food Packaging • Laminates • Packaging	• Shrink Wrap
Agency Ratings	• EC 1907/2006 (REACH)		
Processing Method	• Blown Film	• Extrusion	• Film Extrusion

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.925	g/cm³	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	1	mil	
Secant Modulus - 1% Secant, MD (1.2 mil, Blown Film)	37000	psi	ASTM D882
Secant Modulus - 1% Secant, TD (1.2 mil, Blown Film)	47000	psi	ASTM D882
Tensile Strength - MD (Break, 1.2 mil, Blown Film)	4000	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)	120	%	ASTM D882
Tensile Elongation - TD (Break, 1.2 mil, Blown Film)	470	%	ASTM D882
Dart Drop Impact (1.2 mil, Blown Film)	70	g	ASTM D1709
Elmendorf Tear Strength - MD (1.2 mil, Blown Film)	370	g	ASTM D1922
Elmendorf Tear Strength - TD (1.2 mil, Blown Film)	80	g	ASTM D1922
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, 1.18 mil, Blown Film)	62		ASTM D2457
Haze (1.18 mil, Blown Film)	7.40	%	ASTM D1003

Processing Information

Extrusion	Nominal Value	Unit
Melt Temperature	356 to 374	°F

Notes

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