Formolene® FR171BA

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

Tuesday, November 5, 2019

General Information

Product Description

Formolene ® FR171BA is a low density polyethylene offering good film rigidity and very good optical properties.

Formolene ® FR171BA is formulated without slip and antiblock for use in applications requiring good extrusion processing. Films exhibit high stiffness and very good optical properties.

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

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.929	g/cm³	ASTM D1505
Melt Mass-Flow Rate (190°C/2.16 kg)	0.55	g/10 min	ASTM D1238
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	2	mil	
Secant Modulus - 1% Secant, MD (2.0 mil, Blown Film)	41000	psi	ASTM D882
Secant Modulus - 1% Secant, TD (2.0 mil, Blown Film)	46000	psi	ASTM D882
Tensile Strength - MD (Yield, 2.0 mil, Blown Film)	1900	psi	ASTM D882
Tensile Strength - TD (Yield, 2.0 mil, Blown Film)	1900	psi	ASTM D882
Tensile Strength - MD (Break, 2.0 mil, Blown Film)	4500	psi	ASTM D882
Tensile Strength - TD (Break, 2.0 mil, Blown Film)	3900	psi	ASTM D882
Tensile Elongation - MD (Break, 2.0 mil, Blown Film)	460	%	ASTM D882
Tensile Elongation - TD (Break, 2.0 mil, Blown Film)	610	%	ASTM D882
Dart Drop Impact (50 mil, Blown Film)	120	g	ASTM D1709
Elmendorf Tear Strength - MD (2.0 mil, Blown Film)	200	g	ASTM D1922
Elmendorf Tear Strength - TD (2.0 mil, Blown Film)	260	g	ASTM D1922
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, 1.97 mil, Blown Film)	69		ASTM D2457
Haze (1.97 mil, Blown Film)	6.00	%	ASTM D1003

Notes

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