



Formolene® FR150AC

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

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General Information

Product Description

Formolene® FR150AC is a low density polyethylene with films exhibiting good mechanical and optical properties in blends.

Formolene® FR150AC is formulated with slip and antiblock for use in film applications offering excellent extrusion processing and very good balance of mechanical and optical properties.

General

Material Status	• Commercial: Active
Availability	• North America
Additive	• Antiblock: 450 ppm • Slip: 500 ppm
Features	• Antiblocking • Good Optical Properties • Slip • Excellent Processability • Low Density
Uses	• Agricultural Applications • Film • Shrink Wrap • Blending • Laminates
Agency Ratings	• EC 1907/2006 (REACH)
Processing Method	• Coextrusion • 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)	0.75	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)	35000	psi	ASTM D882
Secant Modulus - 1% Secant, TD (2.0 mil, Blown Film)	40000	psi	ASTM D882
Tensile Strength - MD (Break, 2.0 mil, Blown Film)	4000	psi	ASTM D882
Tensile Strength - TD (Break, 2.0 mil, Blown Film)	3200	psi	ASTM D882
Tensile Elongation - MD (Break, 2.0 mil, Blown Film)	310	%	ASTM D882
Tensile Elongation - TD (Break, 2.0 mil, Blown Film)	530	%	ASTM D882
Dart Drop Impact (2.0 mil, Blown Film)	180	g	ASTM D1709
Elmendorf Tear Strength - MD (2.0 mil, Blown Film)	350	g	ASTM D1922
Elmendorf Tear Strength - TD (2.0 mil, Blown Film)	150	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 1.97 mil, Blown Film)	59		ASTM D2457
Haze (1.97 mil, Blown Film)	8.40	%	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.