



Formolene® FC160AT

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

Tuesday, November 5, 2019

General Information

Product Description

Formolene® FC160AT is a low density polyethylene offering good balance of optical properties and draw down characteristics.

Formolene® FC160AT is formulated with slip and antiblock for use in applications offering excellent extrusion processing and good optical properties.

General

Material Status	• Commercial: Active
Availability	• North America
Additive	• Antiblock: 1200 ppm • Slip: 900 ppm
Features	• Antiblocking • Good Optical Properties • Slip • Good Drawdown • Low Density
Uses	• Bags • Film • Cast Film • Profiles
Agency Ratings	• EC 1907/2006 (REACH)
Processing Method	• Cast Film • Film Extrusion • Extrusion • Profile Extrusion

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (190°C/2.16 kg)	4.0	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)	25000	psi	ASTM D882
Secant Modulus - 1% Secant, TD (1.2 mil, Blown Film)	30000	psi	ASTM D882
Tensile Strength - MD (Yield, 1.2 mil, Blown Film)	1500	psi	ASTM D882
Tensile Strength - TD (Yield, 1.2 mil, Blown Film)	1400	psi	ASTM D882
Tensile Strength - MD (Break, 1.2 mil, Blown Film)	3300	psi	ASTM D882
Tensile Strength - TD (Break, 1.2 mil, Blown Film)	22000	psi	ASTM D882
Tensile Elongation - MD (Break, 1.2 mil, Blown Film)	180	%	ASTM D882
Tensile Elongation - TD (Break, 1.2 mil, Blown Film)	490	%	ASTM D882
Dart Drop Impact (1.2 mil, Blown Film)	70	g	ASTM D1709
Elmendorf Tear Strength - MD (1.2 mil, Blown Film)	290	g	ASTM D1922
Elmendorf Tear Strength - TD (1.2 mil, Blown Film)	110	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 1.18 mil, Blown Film)	71		ASTM D2457
Haze (1.18 mil, Blown Film)	5.20	%	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.