



Formolene® HF3728

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

Tuesday, November 5, 2019

General Information

Product Description

Formolene® HF3728 is a medium density resin that provides an excellent overall balance of tensile, impact, and tear properties in thin film. Processing performance is excellent on high stalk lines.

Formolene® HF3728 meets all requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520, covering safe use of polyolefin articles intended for direct food contact.

General

Material Status	• Commercial: Active		
Availability	• North America		
Features	• Food Contact Acceptable • Good Impact Resistance • Good Processability	• Good Tear Strength • High Tensile Strength • Medium Density	• Medium Molecular Weight
Uses	• Film	• Liners	
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520	
Forms	• Pellets		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.937	g/cm ³	ASTM D1505
Melt Mass-Flow Rate			ASTM D1238
190°C/2.16 kg	0.30	g/10 min	
190°C/21.6 kg	20	g/10 min	
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	1	mil	
Tensile Strength - MD ² (Yield, 1.0 mil, Blown Film)	3050	psi	ASTM D882
Tensile Strength - TD ² (Yield, 1.0 mil, Blown Film)	3050	psi	ASTM D882
Tensile Strength - MD ² (Break, 1.0 mil, Blown Film)	6090	psi	ASTM D882
Tensile Strength - TD ² (Break, 1.0 mil, Blown Film)	6090	psi	ASTM D882
Tensile Elongation - MD ² (Break, 1.0 mil, Blown Film)	500	%	ASTM D882
Tensile Elongation - TD ² (Break, 1.0 mil, Blown Film)	600	%	ASTM D882
Dart Drop Impact (1.0 mil, Blown Film)	130	g	ASTM D1709
Elmendorf Tear Strength - MD (1.0 mil, Blown Film)	50	g	ASTM D1922
Elmendorf Tear Strength - TD (1.0 mil, Blown Film)	500	g	ASTM D1922

Notes

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

² 2.0 in/min