

Formolene® HF3728

High Density Polyethylene

Formosa Plastics Corporation, U.S.A.

Technical Data

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		
Literature ¹	• Technical Datasheet (English)		
Search for UL Yellow Card	• Formosa Plastics Corporation, U.S.A. • Formolene®		
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		

Physical	Nominal Value Unit	Test Method
Density	0.937 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)		ASTM D1238
190°C/2.16 kg	0.30 g/10 min	
190°C/21.6 kg ³	20 g/10 min	

Films	Nominal Value Unit	Test Method
Film Thickness - Tested	25 µm	
Tensile Strength ⁴		ASTM D882
MD: Yield, 25 µm, Blown Film	21.4 MPa	
TD: Yield, 25 µm, Blown Film	21.4 MPa	
MD: Break, 25 µm, Blown Film	42.1 MPa	
TD: Break, 25 µm, Blown Film	42.1 MPa	
Tensile Elongation ⁴		ASTM D882
MD: Break, 25 µm, Blown Film	500 %	
TD: Break, 25 µm, Blown Film	600 %	
Dart Drop Impact (25 µm, Blown Film)	130 g	ASTM D1709
Elmendorf Tear Strength		ASTM D1922
MD: 25 µm, Blown Film	50 g	
TD: 25 µm, Blown Film	500 g	

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ HLMI

⁴ 51 mm/min