

Bapolene® 410FN

Metallocene Linear Low Density Polyethylene

Product Description

Bapolene® 410FN is a metallocene product designed for applications requiring a combination of superior impact, optical and seal properties. It complies with US FDA 21 CFR 177.1520 and contains slip and antiblock.

General

Additive	<ul style="list-style-type: none"> • Antiblock: 5000 ppm • Slip: 1000 ppm
Features	<ul style="list-style-type: none"> • Antiblocking • Good Optical Properties • High Impact Resistance • Slip
Uses	<ul style="list-style-type: none"> • Bags • General Purpose • Laminates • Packaging • Seals • Stretch Wrap
Agency Ratings	<ul style="list-style-type: none"> • FDA 21 CFR 177.1520
Processing Method	<ul style="list-style-type: none"> • Film Extrusion

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	0.918 g/cm ³	0.918 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0 g/10 min	1.0 g/10 min	ASTM D1238

Films	Typical Value (English)	Typical Value (SI)	Test Method
Film Thickness - Tested ²	1.0 mil	25 µm	
Secant Modulus			ASTM D882
1% Secant, MD	24500 psi	169 MPa	
1% Secant, TD	26800 psi	185 MPa	
Tensile Strength			ASTM D882
MD : Yield	1750 psi	12.1 MPa	
TD : Yield	1330 psi	9.17 MPa	
MD : Break	8210 psi	56.6 MPa	
TD : Break	7250 psi	50.0 MPa	
Tensile Elongation			ASTM D882
MD : Break	450 %	450 %	
TD : Break	560 %	560 %	
Dart Drop Impact ³	590 g	590 g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD	220 g	220 g	
TD	410 g	410 g	

Optical	Typical Value (English)	Typical Value (SI)	Test Method
Gloss (60°)	102	102	ASTM D2457
Haze	10.0 %	10.0 %	ASTM D1003