

# Bapolene® 410BN

## Metallocene Linear Low Density Polyethylene

### Product Description

Bapolene® 410BN 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.

### General

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

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	0.918 g/cm <sup>3</sup>	0.918 g/cm <sup>3</sup>	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 <sup>2</sup>	1.0 mil	25 µm	
Secant Modulus			ASTM D882
1% Secant, MD	24500 psi	169 MPa	
1% Secant, TD	28800 psi	198 MPa	
Tensile Strength			ASTM D882
MD : Yield	1800 psi	12.4 MPa	
TD : Yield	1400 psi	9.65 MPa	
MD : Break	10000 psi	68.9 MPa	
TD : Break	8150 psi	56.2 MPa	
Tensile Elongation			ASTM D882
MD : Break	480 %	480 %	
TD : Break	580 %	580 %	
Dart Drop Impact <sup>3</sup>	620 g	620 g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD	160 g	160 g	
TD	420 g	420 g	

Optical	Typical Value (English)	Typical Value (SI)	Test Method
Gloss (60°)	128	128	ASTM D2457
Haze	4.00 %	4.00 %	ASTM D1003