

# Bapolene® 440B

## Metallocene Linear Low Density Polyethylene

### Product Description

Bapolene 440B is a metallocene product designed for applications requiring a combination of superior optical and toughness. It complies with US FDA 21 CFR 177.1520.

### General

Features	• Good Optical Properties	• High Impact Resistance	• Ultra High Toughness
Uses	• General Purpose	• Packaging	• Stretch Wrap
Agency Ratings	• FDA 21 CFR 177.1520		
Processing Method	• Film Extrusion		

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)	3.5 g/10 min	3.5 g/10 min	ASTM D1238

Films	Typical Value (English)	Typical Value (SI)	Test Method
Secant Modulus			ASTM D882
1% Secant, MD	15000 psi	103 MPa	
1% Secant, TD	16000 psi	110 MPa	
Tensile Strength			ASTM D882
MD : Yield	1500 psi	10.3 MPa	
TD : Yield	1300 psi	8.96 MPa	
MD : Break	7500 psi	51.7 MPa	
TD : Break	5000 psi	34.5 MPa	
Dart Drop Impact	420 g	420 g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD	290 g	290 g	
TD	490 g	490 g	

Optical	Typical Value (English)	Typical Value (SI)	Test Method
Gloss (60°)	138	138	ASTM D2457
Haze	3.00 %	3.00 %	ASTM D1003