

Bapolene® 1030

Low Density Polyethylene

Product Description

This resin is a multipurpose extrusion/injection low density polyethylene with excellent processability and good stiffness. This product meets US FDA 21 CFR 177.1520.

General

Features	<ul style="list-style-type: none"> • Food Contact Acceptable • Good Impact Resistance 	<ul style="list-style-type: none"> • Good Processability • Good Stiffness
Uses	<ul style="list-style-type: none"> • Bottles • Caps 	<ul style="list-style-type: none"> • Closures • Profiles • Tubing
Agency Ratings	<ul style="list-style-type: none"> • FDA 21 CFR 177.1520 	
Processing Method	<ul style="list-style-type: none"> • Extrusion 	<ul style="list-style-type: none"> • Injection Molding

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	0.920 g/cm ³	0.920 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0 g/10 min	2.0 g/10 min	ASTM D1238

Films	Typical Value (English)	Typical Value (SI)	Test Method
Film Thickness - Tested	2.0 mil	51 µm	
Secant Modulus			ASTM D882
MD	24500 psi	169 MPa	
TD	30000 psi	207 MPa	
Tensile Strength			ASTM D882
MD : Break	3850 psi	26.5 MPa	
TD : Break	2650 psi	18.3 MPa	
Tensile Elongation			ASTM D882
MD : Break	410 %	410 %	
TD : Break	500 %	500 %	
Dart Drop Impact	90 g	90 g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD	360 g	360 g	
TD	130 g	130 g	