



BFI345

Low Density Polyethylene

BFI345 is a series of homopolymer resins that combine premium clarity with strength and stiffness. In addition, BFI345 exhibits good impact strength on both flat and creased film. BFI345 is recommended for textile packaging, light produce, bread bags and other thin packaging films enhanced by clarity and sparkle. The optical values of BFI345 actually improve with decreases in film gauge and are maintained at wide die gap settings. This fact leads to important cost savings. Film can be drawn down to a minimum gauge consistent with required physical properties, with the assurance that optical properties will not suffer, but improve. With wider die gaps back pressures are reduced, as are extrusion costs.

The basic resin BFI345 meets the requirements of the Food and Drug Administration, regulation 21 CFR 177.1520. This regulation allows the use of this olefin polymer in "...articles or components of articles intended for use in contact with food." Specific limitations or conditions of use may apply.

Property	Nominal Value	Units	ASTM Test Method
Melt Index	1.8	g/10 min	D 1238
Base Resin Density	0.921	g/cc	D 1505
Vicat Softening Point	100	°C D	1525
Film*			
Haze ¹	5.0	%	D 1003
Gloss, 45° ¹	70	units	D 2457
Dart Drop impact Strength, F50	90	g	D 1709
Tensile Strength @ Yield, MD (TD)	1,500 (1,600)	psi	D 882
Tensile Strength @ Break MD (TD)	4,000 (3,400)	psi	D 882
Elongation, MD (TD)	300 (500)	%	D 882
1% Secant Modulus, MD (TD)	26,000 (30,000)	psi	D 882
Elmendorf Tear Strength, MD (TD)	360 (200)	g	D 1922