

SABIC 318B Linear Low Density Polyethylene for Cast Film

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE), Film Grade

Material Notes:

Product Description: 318B is a Linear Low Density Polyethylene grade designed to provide easy processability and specially formulated for optimum thermal stability at high processing temperatures used during the production of Cast films. Films produced using this resin give excellent optical properties, good puncture resistance and tear strength. **Typical Applications:** Cling film, stretch films for manual and pellet wrap, melt embossed films and other general purpose applications. Information provided by SABIC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-318B-Linear-Low-Density-Polyethylene-for-Cast-Film.php

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in ³	load density; ASTM D1505
Thickness	30.0 microns	1.18 mil	
Melt Flow	2.8 g/10 min @Load 2.16 kg, Temperature 190 °C	2.8 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	13.0 MPa	1890 psi	ASTM D882
Film Tensile Strength at Yield, TD	10.0 MPa	1450 psi	ASTM D882
Film Elongation at Break, MD	470 %	470 %	ASTM D882
Film Elongation at Break, TD	600 %	600 %	ASTM D882
Elmendorf Tear Strength MD	65 g	65 g	ASTM D1922
Elmendorf Tear Strength TD	300 g	300 g	ASTM D1922
Elmendorf Tear Strength, MD	2.17 g/micron	55.1 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	10.0 g/micron	254 g/mil	ASTM D1922
Dart Drop Total Energy	570 J/cm	1.07 ft-lb/mil	Puncture Resistance; SABIC Method
Dart Drop	2.50 g/micron	63.5 g/mil	ASTM D1709
Dart Drop Test	75.0 g	0.165 lb	ASTM D1709
Film Tensile Strength at Break, MD	28.0 MPa	4060 psi	ASTM D882
Film Tensile Strength at Break, TD	18.0 MPa	2610 psi	ASTM D882
1% Secant Modulus, MD	135 MPa	19600 psi	ASTM D882

Mechanical Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Vicat Softening Point	98.0 °C	208 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	5.0 %	5.0 %	ASTM D1003
Gloss	90 %	90 %	at 45°; ASTM D2457

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 300 °C	482 - 572 °F	
Roll Temperature	20.0 °C	68.0 °F	

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