

SABIC 118 Series Linear Low Density Polyethylene for Blown Film

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

Material Notes:

Product Description: 118 series resins are Linear Low Density Polyethylene grades suitable for general purpose packaging. Films produced using these resins yield good tensile properties, impact strength and optical properties. 118N: No Slip & No Antiblock 118L: 1000 ppm Slip & 2500 ppm Antiblock 118Z: 1000 ppm Slip & 3500 ppm Antiblock 118W: 1500 ppm Slip & 3500 ppm Antiblock 118WS: 1400 ppm Slip & 2700 ppm Antiblock, High Clarity Grade 118WJ: 1500 ppm Slip & 3500 ppm Antiblock, TNPP Free Grade Typical Applications: Lamination film, ice & frozen food bags, liners, garbage bags, coextruded films, consumer packaging, etc. Information provided by SABIC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-118-Series-Linear-Low-Density-Polyethylene-for-Blown-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	1.0 g/10 min @Load 2.16 kg, Temperature 190 °C	1.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	10.0 MPa	1450 psi	ASTM D882
Film Tensile Strength at Yield, TD	9.00 MPa	1310 psi	ASTM D882
Film Elongation at Break, MD	650 %	650 %	ASTM D882
Film Elongation at Break, TD	830 %	830 %	ASTM D882
Elmendorf Tear Strength MD	160 g	160 g	ASTM D1922
Elmendorf Tear Strength TD	360 g	360 g	ASTM D1922
Elmendorf Tear Strength, MD	5.33 g/micron	135 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	12.0 g/micron	305 g/mil	ASTM D1922
Dart Drop Total Energy	680 J/cm	1.27 ft-lb/mil	Puncture Resistance; SABIC Method
Dart Drop	3.50 g/micron	88.9 g/mil	ASTM D1709
Dart Drop Test	105 g	0.232 lb	ASTM D1709
Film Tensile Strength at Break, MD	37.0 MPa	5370 psi	ASTM D882
Film Tensile Strength at Break, TD	30.0 MPa	4350 psi	ASTM D882

1% Secant Modulus, MD Mechanical Properties	250 MPa Metric	36300 psi English	ASTM D882 Comments
1% Secant Modulus, TD	270 MPa	39200 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	100 °C	212 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	11 %	11 %	ASTM D1003
Gloss	87 %	87 %	at 45°; ASTM D2457

Processing Properties	Metric	English	Comments
Melt Temperature	195 - 215 °C	383 - 419 °F	
Blow-up Ratio (BUR)	2.0 - 3.0	2.0 - 3.0	

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