

SABIC 120W 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: 120W is a Linear Low Density Polyethylene grade suitable for general purpose packaging. Films produced using this resin yield good tensile properties, impact strength and optical properties. Formulation: 1500 ppm Slip & 3000 ppm Antiblock Typical

Applications: Ice & frozen food bags, liners, produce bags, bread bags, textile & garment packaging, etc. Information provided by SABIC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-120W-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	810 %	810 %	ASTM D882
Elmendorf Tear Strength MD	160 g	160 g	ASTM D1922
Elmendorf Tear Strength TD	350 g	350 g	ASTM D1922
Elmendorf Tear Strength, MD	5.33 g/micron	135 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	11.67 g/micron	296.4 g/mil	ASTM D1922
Dart Drop Total Energy	600 J/cm	1.12 ft-lb/mil	Puncture Resistance; SABIC Method
Dart Drop	4.00 g/micron	102 g/mil	ASTM D1709
Dart Drop Test	120 g	0.265 lb	ASTM D1709
Film Tensile Strength at Break, MD	38.0 MPa	5510 psi	ASTM D882
Film Tensile Strength at Break, TD	30.0 MPa	4350 psi	ASTM D882
1% Secant Modulus, MD	260 MPa	37700 psi	ASTM D882
1% Secant Modulus, TD	270 MPa	39200 psi	ASTM D882

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

Optical Properties	Metric	English	Comments
Haze	10 %	10 %	ASTM D1003
Gloss	90 %	90 %	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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