

SABIC 518N 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: 548N is a fractional melt index Linear Low Density Polyethylene grade suitable for high strength packaging applications. Films produced using this resin yield outstanding toughness, excellent puncture resistance, good sealing characteristics and machinability on conversion lines. **Typical Applications:** Heavy duty shipping sacks, Ice & frozen food bags, agricultural films, etc. Information provided by SABIC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-518N-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	0.50 g/10 min @Load 2.16 kg, Temperature 190 °C	0.50 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	11.0 MPa	1600 psi	ASTM D882
Film Tensile Strength at Yield, TD	10.0 MPa	1450 psi	ASTM D882
Film Elongation at Break, MD	670 %	670 %	ASTM D882
Film Elongation at Break, TD	850 %	850 %	ASTM D882
Elmendorf Tear Strength MD	180 g	180 g	ASTM D1922
Elmendorf Tear Strength TD	400 g	400 g	ASTM D1922
Elmendorf Tear Strength, MD	6.00 g/micron	152 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	13.33 g/micron	338.6 g/mil	ASTM D1922
Dart Drop Total Energy	890 J/cm	1.67 ft-lb/mil	Puncture Resistance; SABIC Method
Dart Drop	4.50 g/micron	114 g/mil	ASTM D1709
Dart Drop Test	135 g	0.298 lb	ASTM D1709
Film Tensile Strength at Break, MD	45.0 MPa	6530 psi	ASTM D882
Film Tensile Strength at Break, TD	38.0 MPa	5510 psi	ASTM D882
1% Secant Modulus, MD	250 MPa	36300 psi	ASTM D882

Mechanical Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Vicat Softening Point	102 °C	216 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	12 %	12 %	ASTM D1003
Gloss	80 %	80 %	at 45°; ASTM D2457

Processing Properties	Metric	English	Comments
Melt Temperature	205 - 220 °C	401 - 428 °F	
Blow-up Ratio (BUR)	2.0 - 3.0	2.0 - 3.0	

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