

SABIC 726 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: 726 series resins are fractional index Linear Low Density Polyethylene grades suitable for blown film applications.

Films produced using these resins give a relatively higher stiffness, good tensile properties, impact strength and sealing properties. 726N:

No Slip & No Antiblock 726Q: 1250 ppm Slip & 750 ppm Antiblock Typical Applications: Bread bags, textile and garment packaging, shipping sacks, can liners, carrier bags, etc. Information provided by SABIC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-726-Series-Linear-Low-Density-Polyethylene-for-Blown-Film.php

Physical Properties	Metric	English	Comments
Density	0.926 g/cc	0.0335 lb/in ³	load density; ASTM D1505
Thickness	30.0 microns	1.18 mil	
Melt Flow	0.70 g/10 min @Load 2.16 kg, Temperature 190 °C	0.70 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	12.0 MPa	1740 psi	ASTM D882
Film Elongation at Break, MD	600 %	600 %	ASTM D882
Film Elongation at Break, TD	750 %	750 %	ASTM D882
Elmendorf Tear Strength MD	85 g	85 g	ASTM D1922
Elmendorf Tear Strength TD	250 g	250 g	ASTM D1922
Elmendorf Tear Strength, MD	2.83 g/micron	71.9 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	8.33 g/micron	212 g/mil	ASTM D1922
Dart Drop Total Energy	620 J/cm	1.16 ft-lb/mil	Puncture Resistance; SABIC Method
Dart Drop	2.83 g/micron	71.9 g/mil	ASTM D1709
Dart Drop Test	85.0 g	0.187 lb	ASTM D1709
Film Tensile Strength at Break, MD	42.0 MPa	6090 psi	ASTM D882
Film Tensile Strength at Break, TD	36.0 MPa	5220 psi	ASTM D882
1% Secant Modulus, MD	300 MPa	43500 psi	ASTM D882

Mechanical Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Vicat Softening Point	105 °C	221 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	13 %	13 %	ASTM D1003
Gloss	75 %	75 %	at 45°; ASTM D2457

Processing Properties	Metric	English	Comments
Melt Temperature	195 - 225 °C	383 - 437 °F	
Blow-up Ratio (BUR)	2.0 - 3.0	2.0 - 3.0	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China