

SABIC HP4023W Low Density Polyethylene for Blown Film

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

Material Notes:

Product Description: HP4023W is a Low Density Polyethylene grade suitable for producing general purpose films and contains slip and antiblock additives. It yields excellent processability with good mechanical properties. Typical Applications: HP4023W can be used for high clarity laundry bags, textile wrapping films, produce bags and zip lock bags. Information provided by SABIC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-HP4023W-Low-Density-Polyethylene-for-Blown-Film.php

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 lb/in ³	ASTM D1505
Thickness	30.0 microns	1.18 mil	
Melt Flow	4.0 g/10 min @Load 21.6 kg, Temperature 190 °C	4.0 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	7.00 MPa	1020 psi	ASTM D882
Film Tensile Strength at Yield, TD	7.00 MPa	1020 psi	ASTM D882
Film Elongation at Break, MD	270 %	270 %	ASTM D882
Film Elongation at Break, TD	540 %	540 %	ASTM D882
Elmendorf Tear Strength MD	150 g	150 g	ASTM D1922
Elmendorf Tear Strength TD	120 g	120 g	ASTM D1922
Elmendorf Tear Strength, MD	5.00 g/micron	127 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	4.00 g/micron	102 g/mil	ASTM D1922
Dart Drop	2.00 g/micron	50.8 g/mil	ASTM D1709
Dart Drop Test	60.0 g	0.132 lb	ASTM D1709
Film Tensile Strength at Break, MD	18.0 MPa	2610 psi	ASTM D882
Film Tensile Strength at Break, TD	15.0 MPa	2180 psi	ASTM D882
1% Secant Modulus, MD	60.0 MPa	8700 psi	ASTM D882
1% Secant Modulus, TD	170 MPa	24700 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	91.0 °C	196 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	7.0 %	7.0 %	ASTM D1003
Gloss	75 %	75 %	at 45°; ASTM D2457

Processing Properties	Metric	English	Comments
Melt Temperature	160 - 175 °C	320 - 347 °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