

SABIC HP0322N Low Density Polyethylene for Blown Film

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

Material Notes:

Product Description: HP0322N is a Low Density Polyethylene grade suitable for producing heavy duty films and contains no slip or antiblock additives. It yields outstanding toughness and optical properties in the film. **Typical Applications:** HP0322N can be used for heavy duty bags, industrial shrink films, construction and agricultural films. Information provided by SABIC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-HP0322N-Low-Density-Polyethylene-for-Blown-Film.php

Physical Properties	Metric	English	Comments
Density	0.922 g/cc	0.0333 lb/in ³	ASTM D1505
Thickness	50.0 microns	1.97 mil	
Melt Flow	0.30 g/10 min @Load 2.16 kg, Temperature 190 °C	0.30 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	450 %	450 %	ASTM D882
Film Elongation at Break, TD	690 %	690 %	ASTM D882
Elmendorf Tear Strength MD	400 g	400 g	ASTM D1922
Elmendorf Tear Strength TD	300 g	300 g	ASTM D1922
Elmendorf Tear Strength, MD	8.00 g/micron	203 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	6.00 g/micron	152 g/mil	ASTM D1922
Dart Drop	4.00 g/micron	102 g/mil	ASTM D1709
Dart Drop Test	200 g	0.441 lb	ASTM D1709
Film Tensile Strength at Break, MD	31.0 MPa	4500 psi	ASTM D882
Film Tensile Strength at Break, TD	30.0 MPa	4350 psi	ASTM D882
1% Secant Modulus, MD	190 MPa	27600 psi	ASTM D882
1% Secant Modulus, TD	220 MPa	31900 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	95.0 °C	203 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	11 %	11 %	ASTM D1003
Gloss	50 %	50 %	at 45°; ASTM D2457

Processing Properties	Metric	English	Comments
Melt Temperature	180 - 195 °C	356 - 383 °F	
Blow-up Ratio (BUR)	2.5 - 4.0	2.5 - 4.0	

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