

SABIC HP2022 Series Low Density Polyethylene for Blown Film

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

Material Notes:

Product Description: HP2022 series resins are Low Density Polyethylene grades suitable for general purpose packaging. They exhibit better draw down, good optical and mechanical properties. HP2022N: No Slip & No Antiblock HP2022J: 750 ppm Slip & 1000 ppm

Antiblock Typical Applications: Thin shrink film, lamination film, produce bags, textile packaging, general purpose bags with good optics and t-shirts carrier bags. Information provided by SABIC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-HP2022-Series-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	30.0 microns	1.18 mil	
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 190 °C	2.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	8.00 MPa	1160 psi	ASTM D882
Film Tensile Strength at Yield, TD	7.00 MPa	1020 psi	ASTM D882
Film Elongation at Break, MD	290 %	290 %	ASTM D882
Film Elongation at Break, TD	570 %	570 %	ASTM D882
Elmendorf Tear Strength MD	180 g	180 g	ASTM D1922
Elmendorf Tear Strength TD	150 g	150 g	ASTM D1922
Elmendorf Tear Strength, MD	6.00 g/micron	152 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	5.00 g/micron	127 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	21.0 MPa	3050 psi	ASTM D882
Film Tensile Strength at Break, TD	18.0 MPa	2610 psi	ASTM D882
1% Secant Modulus, MD	160 MPa	23200 psi	ASTM D882
1% Secant Modulus, TD	180 MPa	26100 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	92.0 °C	198 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	7.0 %	7.0 %	ASTM D1003
Gloss	80 %	80 %	at 45°; ASTM D2457

Processing Properties	Metric	English	Comments
Melt Temperature	160 - 180 °C	320 - 356 °F	
Blow-up Ratio (BUR)	2.0 - 3.0	2.0 - 3.0	

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