

SABIC HP0722N Low Density Polyethylene for Blown Film

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

Material Notes:

Product Description: HP0722N is a Low Density Polyethylene grade suitable for producing medium duty films and contains no slip or antiblock additives. It yields good toughness and optical properties in the film. **Typical Applications:** HP0722N can be used for medium duty bags, shrink films, shopping bags, lamination films and frozen food packaging. Information provided by SABIC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-HP0722N-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	0.75 g/10 min @Load 21.6 kg, Temperature 190 °C	0.75 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	10.0 MPa	1450 psi	ASTM D882
Film Tensile Strength at Yield, TD	9.00 MPa	1310 psi	ASTM D882
Film Elongation at Break, MD	400 %	400 %	ASTM D882
Film Elongation at Break, TD	650 %	650 %	ASTM D882
Elmendorf Tear Strength MD	350 g	350 g	ASTM D1922
Elmendorf Tear Strength TD	280 g	280 g	ASTM D1922
Elmendorf Tear Strength, MD	7.00 g/micron	178 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	5.60 g/micron	142 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	27.0 MPa	3920 psi	ASTM D882
Film Tensile Strength at Break, TD	23.0 MPa	3340 psi	ASTM D882
1% Secant Modulus, MD	180 MPa	26100 psi	ASTM D882
1% Secant Modulus, TD	200 MPa	29000 psi	ASTM D882

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

Optical Properties	Metric	English	Comments
Haze	9.0 %	9.0 %	ASTM D1003
Gloss	60 %	60 %	at 45°; ASTM D2457

Processing Properties	Metric	English	Comments
Melt Temperature	170 - 185 °C	338 - 365 °F	
Blow-up Ratio (BUR)	2.5 - 4.0	2.5 - 4.0	

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