

LyondellBasell Alathon® L5005 High Density Polyethylene

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Film Grade

Material Notes:

ApplicationsALATHON L 5005 is a high molecular weight high density copolymer that provides broad bimodal molecular weight distribution, high stiffness and good heat seal response and strength. Typical applications include merchandise bags, grocery sacks, trash can liners, produce bags and roll stock.**Regulatory Status**L 5005 meets the requirements of Food and Drug Administration regulation, 21 CFR 177.1520. This regulation allows the use of this olefin polymer in "articles or components of articles intended for use in contact with food." Specific limitations or conditions of use may apply. Contact your Equistar sales representative for more information. **Processing Techniques**Specific recommendations for processing L 5005 can only be made when the processing conditions, equipment and end use are known. For further suggestions, please contact your Equistar sales representative.**Typical Process Condition Ranges:** BUR=3.5-4.5:1; Neck Height=6-9 Die Diameters: Die Gap(nominal), in.=0.040-0.050; Tower Height=Relatively Short; Output, Lb/Hr/In of Die Circumference=10-12; Melt Temperature- 390-420°F(199-216°C)This product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Alathon-L5005-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.949 g/cc	0.0343 lb/in ³	ASTM D1505
Melt Flow	0.057 g/10 min	0.057 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	26.2 MPa	3800 psi	ASTM D882
Film Tensile Strength at Yield, TD	23.4 MPa	3400 psi	ASTM D882
Film Elongation at Break, MD	300 %	300 %	ASTM D882
Film Elongation at Break, TD	420 %	420 %	ASTM D882
Elmendorf Tear Strength MD	14 g	14 g	ASTM D1922
Elmendorf Tear Strength TD	35 g	35 g	ASTM D1922
Dart Drop Total Energy	1090 J/cm	2.05 ft-lb/mil	ASTM D3420
Film Tensile Strength at Break, MD	58.6 MPa	8500 psi	ASTM D882
Film Tensile Strength at Break, TD	34.5 MPa	5000 psi	ASTM D882
1% Secant Modulus, MD	793 MPa	115000 psi	ASTM D822
1% Secant Modulus, TD	965 MPa	140000 psi	ASTM D822

Processing Properties	Metric	English	Comments
-----------------------	--------	---------	----------

Melt Temperature Processing Properties	199 - 216 °C Metric	390 - 421 °F English	Comments
-------------------------------------------	------------------------	-------------------------	----------

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