

LyondellBasell Alathon® L5845 High Density Polyethylene

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

Material Notes:

ApplicationsALATHON L 5845 is a medium molecular weight high density homopolymer for use in blown film applications. Typical applications include paper replacement, coextrusions and laminations.
Regulatory StatusL 5845 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 TechniquesSpecific recommendations for processing L 5845 can only be made when the processing conditions, equipment and end use are known. For further suggestions, please contact your Equistar sales representative.
Typical Extrusion Conditions: BUR=2-2.5:1; Frost Line 24"; 1.0 Mil Film; 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-L5845-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.958 g/cc	0.0346 lb/in ³	ASTM D1505
Thickness	25.4 microns	1.00 mil	2 - 2.5 BUR; Frost line 24 inch
Melt Flow	0.45 g/10 min	0.45 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	26.9 MPa	3900 psi	ASTM D882
Film Elongation at Break, MD	750 %	750 %	ASTM D882
Film Elongation at Break, TD	850 %	850 %	ASTM D882
Elmendorf Tear Strength MD	15 g	15 g	ASTM D1922
Elmendorf Tear Strength TD	30 g	30 g	ASTM D1922
1% Secant Modulus, MD	827 MPa	120000 psi	ASTM D822
1% Secant Modulus, TD	965 MPa	140000 psi	ASTM D822

Processing Properties	Metric	English	Comments
Melt Temperature	199 - 216 ÅC	390 - 421 ÅF	Typical Extrusion

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