

LyondellBasell Alathon[®] L5005V High Density Polyethylene, HMW Film Grade

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , MDPE , Medium Density Polyethylene (MDPE), Film Grade

Material Notes:

ALATHON L5005V 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. Materials of animal origin are not used as plasticizers, additives, or raw materials in L5005V. Regulatory Status: L5005V meets the requirements of the 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. Specific recommendations for processing L5005V can only be made when the processing conditions, equipment and end use are known. For further suggestions please contact your Equistar sales representative. This product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Alathon-L5005V-High-Density-Polyethylene-HMW-Film-Grade.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	35.2 MPa	5100 psi	ASTM D882
Film Tensile Strength at Yield, TD	29.6 MPa	4300 psi	ASTM D882
Film Elongation at Break, MD	360 %	360 %	ASTM D882
Film Elongation at Break, TD	340 %	340 %	ASTM D882
Secant Modulus, MD	0.938 GPa	136 ksi	ASTM D882
Secant Modulus, TD	0.958 GPa	139 ksi	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	1070 J/cm	2.00 ft-lb/mil	ASTM D4272
Film Tensile Strength at Break, MD	76.5 MPa	11100 psi	ASTM D882
Film Tensile Strength at Break, TD	66.2 MPa	9600 psi	ASTM D882

Processing Properties	Metric	English	Comments
Melt Temperature	199 - 216 Â°C	390 - 420 Â°F	

Processing Properties	Metric - 0.127 cm	English - 0.0500 in	Comments
Blow-up Ratio (BUR)	3.5 - 4.5	3.5 - 4.5	

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