

LyondellBasell Alathon® M5363 High Density Polyethylene

Category: Polymer, Thermoplastic, Ethylene Vinyl Acetate, Ethylene Vinyl Acetate; Molded/Extruded

Material Notes:

ApplicationsALATHON L 4912 is a high molecular weight, high density copolymer with a broad molecular weight distribution. This resin provides excellent stiffness and a good balance of film properties as a single component or in blends. It is designed to process well on grooved feed or smooth bore equipment. L 4912 may be used in a variety of applications such as liners, over-wrap, multi-wall sheeting, merchandise and produce bags.Regulatory StatusL 4912 meets the requirements of the Food and Drug Administration, regulation 21 CFR 177.1520. This regulation allows the use of 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 regarding the suitability of specific products for specific applications.Processing TechniquesSpecific recommendations for processing L 4912 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-M5363-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.953 g/cc	0.0344 lb/in³	ASTM D1505
Melt Flow	6.5 g/10 min	6.5 g/10 min	ASTM D1238
Spiral Flow	24.1 cm	9.50 in	Measures the number on inches of flow produced when molten resin is injected into a long, spiral channel (0.625" insert), at a constant injection pressure of 1000 psi with a melt temperature of 440° F; Equistar Test

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	67	67	ASTM D2240
Tensile Strength at Break	22.4 MPa	3250 psi	ASTM D638
Tensile Strength, Yield	28.3 MPa	4110 psi	Crosshead Speed 2 in/min; ASTM D638
Elongation at Yield	7.3 %	7.3 %	Crosshead Speed 2 in/min; ASTM D638
1% Secant Modulus	1250 MPa	181000 psi	Crosshead Speed 0.5 in/min; ASTM D790
2% Secant Modulus	1.04 GPa	151 ksi	Crosshead Speed 0.5 in/min; ASTM D790

Thermal Properties	Metric	English	Comments	
Deflection Temperature at 0.46 MPa (66 psi)	72.0 °C	162 °F	ASTM D648	



Thermal Properties 11	Metric	English	Comments 5
Brittleness Temperature	<= -76.0 °C	<= -105 °F	F ₅₀ ; ASTM D746

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