

## LyondellBasell Alathon® M5350 High Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Injection Molded

### Material Notes:

**Applications**ALATHON M 5350 copolymer with narrow molecular weight distribution. This resin provides high impact strength and stress crack resistance, excellent color, low odor and good processing stability. Typical applications include open head pails, large shipping containers and 55-gallon drum lids.  
**Regulatory Status**M 5350 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 M 5350 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-M5350-High-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_LyondellBasell-Alathon-M5350-High-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.953 g/cc	0.0344 lb/in <sup>3</sup>	ASTM D1505
Melt Flow	4.5 g/10 min	4.5 g/10 min	ASTM D1238
Spiral Flow	21.3 cm	8.40 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

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	68	68	ASTM D2240
Tensile Strength at Break	26.7 MPa	3870 psi	ASTM D638
Tensile Strength, Yield	28.2 MPa	4090 psi	Crosshead speed - 2"min.; ASTM D638
Elongation at Yield	7.2 %	7.2 %	Crosshead speed - 2"min.; ASTM D638
1% Secant Modulus	1280 MPa	186000 psi	Crosshead speed - 0.5" min; ASTM D790
2% Secant Modulus	1.08 GPa	156 ksi	Crosshead speed - 0.5" min; ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	70.0 °C	158 °F	ASTM D648
Vicat Softening Point	127 °C	261 °F	ASTM D1525

Brittleness Temperature  
Thermal Properties

$\leq -76.0$  °C  
Metric

$\leq -105$  °F  
English

F<sub>50</sub>; ASTM D746  
Comments

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China