

Alathon

# L5840

High Density Polyethylene

Blow Molding Grade

Melt Index 0.35 Density 0.958

## Applications

Alathon L5840 is a lightweighting resin that exhibits excellent color, low odor and provides processing stability. Typical applications include household chemicals, industrial chemicals, detergent and motor oil bottles. L 5840 containing antistat is available as L5840AS.

## Regulatory Status

L5840 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.

## Processing Techniques

Specific recommendations for processing L5840 can only be made when the processing conditions, equipment and end use are known. For further suggestions please contact your Equistar sales representative.

## Typical Properties

Property Method	Nominal Value	Units	ASTM Test
Melt Index	0.35	g/10 min	D 1238
Density	0.958	g/cm <sup>3</sup>	D 1505
Tensile Strength @ Yield	4,400	psi	D 638
Elongation @ Break	>600	%	D 638
Flexural Modulus	211,000	psi	D 790
Tensile Impact	140	ft-lb/in.	D 1822
Low Temperature Brittleness, F <sub>50</sub>	<-76	°C	D 746
Heat Deflection Temperature @ 66 psi	81	°C	D 648
Vicat Softening Point	128	°C	D 1525
Hardness, Shore D	68		D 2240
Environmental Stress Crack Resistance, F <sub>50</sub>	25	hrs	D 1693 <sup>1</sup>

<sup>1</sup> 100% Igepal® CO-630, 50°C

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Lyondell Chemical Company  
 1221 McKinney, Suite 700  
 P.O. Box 2583  
 Houston, Texas 77252-2583  
 800.615.8999  
<http://www.Lyondell.com>