

Alathon® L3810X03

Medium Density Polyethylene

LyondellBasell Industries

Message:

ALATHON L 3810X03 is an experimental medium density polyethylene copolymer with a broad and bimodal molecular weight distribution. Typical applications include merchandise bags, multi-wall bag film, heavy-duty shipping sacks and roll stock. L 3810X03 is also an excellent blend component for processors who wish to improve the tensile properties and processability of LLDPE film resins or improve the heat seal of HDPE films. This resin can be used to produce mono- and multi-layer films requiring toughness as well as an improved feel and appearance. L 3810X03 also provides processors without grooved feed extruders an opportunity to experience the advantages of higher molecular weight resins.

General Information			
Features	Copolymer		
	Compliance of Food Exposure		
	Medium molecular weight		
	Medium wide molecular weight distribution		
Uses	Films		
	Bags		
	Mixing		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Film extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.940	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.10	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
secant modulus			ASTM D882
MD : 25 µm	662	MPa	ASTM D882
TD : 25 µm	855	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 25 µm	23.4	MPa	ASTM D882
TD: Yield, 25 µm	27.6	MPa	ASTM D882
MD: Break, 25 µm	66.2	MPa	ASTM D882
TD: Break, 25 µm	46.2	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 µm	380	%	ASTM D882
TD: Break, 25 µm	620	%	ASTM D882
Dart Drop Impact (25 µm)	76	g	ASTM D1709
Total Energy Impact (25 µm)	0.461	J	ASTM D4272

Elmendorf Tear Strength			ASTM D1922
MD : 25 μ m	16	g	ASTM D1922
TD : 25 μ m	560	g	ASTM D1922
Extrusion	Nominal Value	Unit	
Melt Temperature	193 - 210	°C	
Extrusion instructions			

Typical Process Conditions Blow-up Ratio: 4:1

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

