Alathon® XL3805

Medium Density Polyethylene

LyondellBasell Industries

Message:

ALATHON XL 3805 is an experimental, high molecular weight, medium density polyethylene copolymer with a broad and bimodal mo lecular weight distribution. Films produced from this resin exhibit excellent MD and TD tear with a soft feel and improved optics in a HMW resin. Applications include typical thinner gauge (<1.0 mil.) merchandise bags, grocery sacks, can liners, and produce bags as well as thicker gauge (>1.0 mil.) heavy duty shipping sacks, construction film and agriculture film. This resin can be used to produce mono- and multi-layer films requiring toughness as well as improved feel and appearance.

General Information					
Features	High molecular weight				
	Copolymer				
	Good tear strength				
	Good toughness				
	Compliance of Food Exposure				
	Medium wide molecular weight distribution				
Uses	Films				
	Lining				
	Bags				
	Architectural application field				
	Agricultural application				
	, gircaltara application				
Agency Ratings	FDA 21 CFR 177.1520				
Forms	Particle				
Processing Method	Film extrusion				
Physical	Nominal Value	Unit	Test Method		
Density	0.938	g/cm³	ASTM D1505		
Melt Mass-Flow Rate (MFR) (190°C/2.1 kg)	6 0.057	g/10 min	ASTM D1238		
Films	Nominal Value	Unit	Test Method		
secant modulus		Unit	ASTM D882		
MD : 13 μm	641	MPa	ASTM D882		
TD : 13 μm	772	MPa	ASTM D882		
Tensile Strength			ASTM D882		
MD: Yield, 13 µm	26.3	MPa	ASTM D882		
TD: Yield, 13 μm	23.1	MPa	ASTM D882		
MD: Broken, 13 µm	88.3	MPa	ASTM D882		
TD: Broken, 13 µm	47.5	MPa	ASTM D882		
Tensile Elongation			ASTM D882		
~	270	%	ASTM D882		

TD: Broken, 13 µm	390	%	ASTM D882
Total Energy Impact			ASTM D4272
13 µm	3.12	J	ASTM D4272
100 µm	5.97	J	ASTM D4272
Elmendorf Tear Strength			ASTM D1922
MD : 13 µm	20	g	ASTM D1922
MD : 100 µm	420	g	ASTM D1922
TD : 13 μm	40	g	ASTM D1922
TD : 100 µm	750	g	ASTM D1922
Extrusion	Nominal Value	Unit	
Melt Temperature	199 - 210	°C	
Extrusion instructions			

Typical Extrusion ConditionsBlow Up Ratio: 4:1Neck Height: 8 Die Diameters

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