

Alathon® L4550

High Density Polyethylene
LyondellBasell Industries

Message:

Alathon L4550 is a medium molecular weight high density copolymer with a narrow molecular weight distribution. L4550 inherently has very low gels and is used for monofilament, slit tape and high speed orientation processes. Typical applications include specialty films, packaging of agriculture products, protective netting for the agriculture and building industry, and netting for food applications.

General Information			
Features	Low speed solidification crystal point		
	Compliance of Food Exposure		
	Narrow molecular weight distribution		
	Medium molecular weight		
Uses	Packaging		
	monofilament		
	Non-specific food applications		
	Agricultural application		
	Web		
Agency Ratings	FDA 21 CFR 177.1520		
Physical	Nominal Value	Unit	Test Method
Density	0.945	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.45	g/10 min	ASTM D1238
190°C/21.6 kg	20	g/10 min	ASTM D1238
190°C/5.0 kg	1.8	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	51	µm	
Secant Modulus - 1% Secant, MD (51 µm, Blown Film)	685	MPa	ASTM E111
Tensile Strength - MD			ASTM D882
Yield, 51 µm, blown film	22.8	MPa	ASTM D882
Fracture, 51 µm, blown film	59.3	MPa	ASTM D882
Tensile Elongation - MD (Fracture, 51 µm, blown film)	750	%	ASTM D882

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