

Alathon® L5005V

High Density Polyethylene
LyondellBasell Industries

Message:

ALATHON L5005V is a high molecular weight high density copolymer that provides broad bimodal molecular weight distribution, high stiffness and good heat seal response and strength. Typical applications include merchandise bags, grocery sacks, trash can liners, produce bags and roll stock. Materials of animal origin are not used as plasticizers, additives, or raw materials in L5005V.

General Information			
Features	Rigidity, high		
	High molecular weight		
	High density		
	Copolymer		
	Good heat sealability		
	Compliance of Food Exposure		
	Bimodal molecular weight distribution		
Uses	Lining		
	Bags		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Film extrusion		
	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.949	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.060	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	13	µm	
secant modulus			ASTM D882
MD : 13 µm	945	MPa	ASTM D882
TD : 13 µm	1050	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 13 µm	34.5	MPa	ASTM D882
TD: Yield, 13 µm	29.0	MPa	ASTM D882
MD: Broken, 13 µm	84.1	MPa	ASTM D882
TD: Broken, 13 µm	57.2	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 13 µm	320	%	ASTM D882

TD: Broken, 13 μ m	390	%	ASTM D882
Dart Drop Impact ¹ (13 μ m)	340	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 13 μ m	11	g	ASTM D1922
TD : 13 μ m	76	g	ASTM D1922

Extrusion instructions

Data Obtained Under the Following Extrusion Conditions:Alpine 200 mm 3 Layer Die (40/35/25); 3 Extruders: 65 mm / 75 mm / 50 mm; Die Gap = 1.5 mm; Film Thickness = 0.5 mil; 500 lbs/ hr; Internal Bubble Cooling; Neck Height = 8 x DD; Blow Up Ratio = 4:1

NOTE

1. F50

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