

Technical Data Sheet

Alathon L5045

High Density Polyethylene



Product Description

Alathon L5045 is a medium molecular weight high density copolymer for use in blown film extrusion applications. Typical applications include millinery bags, coextrusions and plastic netting.

Status	Commercial: Active
Availability	North America
Application	Bags & Pouches; Food Packaging Film; Lamination Film; Secondary Packaging
Market	Flexible Packaging
Processing Method	Blown Film
Attribute	General Purpose; Good Organoleptic Properties; High Density; Low Gel

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	0.45	g/10 min	0.45	g/10 min	ASTM D1238
Density, (23 °C)	0.950	g/cm ³	0.950	g/cm ³	ASTM D1505
Film					
Tensile Strength at Break					
MD	6250	psi	43.1	MPa	ASTM D882
TD	4420	psi	30.5	MPa	ASTM D882
Tensile Strength at Yield					
MD	3400	psi	23.4	MPa	ASTM D882
TD	3370	psi	23.2	MPa	ASTM D882
Tensile Elongation at Break					
MD	530	%	530	%	ASTM D882
TD	970	%	970	%	ASTM D882
Secant Modulus					
MD	101000	psi	695	MPa	ASTM D882
TD	132000	psi	910	MPa	ASTM D882
Elmendorf Tear Strength					
MD	40	g	40	g	ASTM D1922
TD	900	g	900	g	ASTM D1922

