

Technical Data Sheet

Alathon 9302

High Density Polyethylene



Product Description

Alathon 9302 is a high molecular weight, polyethylene copolymer resin selected by customers for sheet extrusion. *Alathon 9302* exhibits outstanding toughness and melt strength, excellent creep resistance, and broad molecular weight distribution.

Status	Commercial: Active
Availability	North America
Application	General Sheet Extrusion
Market	Rigid Packaging
Processing Method	Sheet and Profile Extrusion

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	0.06	g/10 min	0.06	g/10 min	ASTM D1238
Density, (23 °C)	0.949	g/cm ³	0.949	g/cm ³	ASTM D1505
Mechanical					
Flexural Modulus, (1% Secant)	134000	psi	924	MPa	ASTM D790
Tensile Strength at Yield	3690	psi	25.4	MPa	ASTM D638
Tensile Elongation at Break	>600	%	>600	%	ASTM D638
Environmental Stress Crack Resistance, F ₅₀ (100% Igepal®, Cond B)	>1000	hr	>1000	hr	ASTM D1693
Impact					
Tensile Impact Strength	188	ft-lb/in ²	395	kJ/m ²	ASTM D1822
Thermal					
Vicat Softening Temperature	122	°F	50	°C	ASTM D1525
Low Temperature Brittleness	<-71	°F	<-57	°C	ASTM D746