

Technical Data Sheet

Alathon 9301

High Density Polyethylene



Product Description

Alathon 9301 is a high density polyethylene resin selected by customers for sheet extrusion and thermoforming. *Alathon 9301* exhibits very low sag and high stiffness.

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)	0.35	g/10 min	0.35	g/10 min	ASTM D1238
Density, (23 °C)	0.956	g/cm ³	0.956	g/cm ³	ASTM D1505
Mechanical					
Flexural Modulus, (1% Secant)	180000	psi	1240	MPa	ASTM D790
Tensile Strength at Yield	4100	psi	28.3	MPa	ASTM D638
Tensile Elongation at Break	>600	%	>600	%	ASTM D638
Impact					
Tensile Impact Strength	140	ft-lb/in ²	294	kJ/m ²	ASTM D1822
Thermal					
Vicat Softening Temperature	261	°F	127	°C	ASTM D1525
Low Temperature Brittleness	<-105	°F	<-76	°C	ASTM D746
Deflection Temperature Under Load, (66 psi, Unannealed)	169	°F	76	°C	ASTM D648