

## 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.

#### Regulatory Status

For regulatory compliance information, see *Alathon 9301* [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

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

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
<b>Physical</b>					
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 <sup>3</sup>	0.956	g/cm <sup>3</sup>	ASTM D1505
<b>Mechanical</b>					
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
<b>Impact</b>					
Tensile Impact Strength	140	ft-lb/in <sup>2</sup>	294	kJ/m <sup>2</sup>	ASTM D1822
<b>Thermal</b>					
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