

Alathon® 9301

High Density Polyethylene
LyondellBasell Industries

Message:

ALATHON 9301 is a high density polyethylene resin designed for sheet extrusion and thermoforming. ALATHON 9301 exhibits very low sag and high stiffness.

General Information	
Features	Food Contact Acceptable
	High Stiffness
Uses	Profiles
	Sheet
Agency Ratings	FDA 21 CFR 177.1520
Processing Method	Profile Extrusion
	Sheet Extrusion
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Density	0.958	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.35	g/10 min	
190°C/21.6 kg	35	g/10 min	
Environmental Stress-Cracking Resistance (F50)	80.0	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	29.6	MPa	ASTM D638
Tensile Elongation (Break)	> 700	%	ASTM D638
Flexural Modulus ¹	1240	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength ²	193	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	76.0	°C	ASTM D648
Brittleness Temperature	< -80.0	°C	ASTM D746
Vicat Softening Temperature	128	°C	ASTM D1525

NOTE	
1.	Type I
2.	Type S

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