

LyondellBasell Alathon® 9301 High Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Extruded

Material Notes:

ApplicationsALATHON 9301 is a high density resin designed for sheet extrusion and thermoforming. It exhibits very low sag and high stiffness.
Regulatory StatusALATHON 9301 meets the requirements of Food and Drug Administration regulation, 21 CFR 177.1520. This regulation allows the use of this olefin polymer in "...articles or components of articles intended for use in contact with food." Specific limitations or conditions of use may apply. Contact your Equistar sales representative for more information.
Processing TechniquesSpecific recommendations for processing ALATHON 9301 can only be made when the processing conditions, equipment and end use are known. For further suggestions, please contact your Equistar sales representative. This product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Alathon-9301-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.958 g/cc	0.0346 lb/in ³	ASTM D1505
Environmental Stress Crack Resistance	80 hour	80 hour	F₅₀; ASTM D1693
Melt Flow	0.35 g/10 min	0.35 g/10 min	ASTM D1238
High Load Melt Index	35 g/10 min	35 g/10 min	High load, I-20; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	29.6 MPa	4300 psi	ASTM D638
Elongation at Break	>= 700 %	>= 700 %	ASTM D638
Flexural Modulus	1.24 GPa	180 ksi	1% Secant; ASTM D790
Tensile Impact Strength	193 kJ/m ²	92.0 ft-lb/in ²	ASTM D1822,S

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	76.0 °C	169 °F	ASTM D648
Vicat Softening Point	128 °C	262 °F	ASTM D1525
Brittleness Temperature	<= -80.0 °C	<= -112 °F	ASTM D746

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