

LyondellBasell Petrothene® NA345009 Low Density Polyethylene (Blow Molding)

Category : Polymer , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Blow Molding Grade

Material Notes:

Applications PETROTHENE NA 345-009 is a low density homopolymer resin designed for blow molding applications. Excellent clarity combined with strength and high stiffness makes NA 345-009 an ideal choice for flexible containers, squeeze bottles and toys. Regulatory Status NA 345-009 meets the requirements of the 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 Techniques Specific recommendations for processing NA 345-009 can only be made when the processing conditions, equipment and end use are known. For further suggestions, 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-Petrothene-NA345009-Low-Density-Polyethylene-Blow-Molding.php

Physical Properties	Metric	English	Comments
Density	0.9205 g/cc	0.03326 lb/in ³	ASTM D1505
Melt Flow	1.8 g/10 min	1.8 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	56	56	ASTM D2240
Tensile Strength at Break	12.4 MPa	1800 psi	ASTM D638
Elongation at Break	>= 600 %	>= 600 %	ASTM D638
Flexural Modulus	0.296 GPa	43.0 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	46.0 Å°C	115 Å°F	ASTM D648
Vicat Softening Point	96.0 Å°C	205 Å°F	ASTM D1525
Brittleness Temperature	<= -76.0 Å°C	<= -105 Å°F	F ₅₀ ; ASTM D746

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