

LyondellBasell Petrothene[®] NA217000 Low Density Polyethylene

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

Material Notes:

ApplicationsPETROTHENE NA 217-000 is a high speed, lightweight coating resin for use with paper, films and other base stocks. This resin can yield coating weights down to 3.5 lbs/ream at line speeds of 1200 ft./min. or higher. Products made from materials coated with NA 217-000 include flexible packaging, milk cartons, industrial papers and foil mounting, single-ply bags, pouch bags, board trays, fiber drums, corrugated boxes and fiberboard containers. **Regulatory Status**NA 217-000 meets requirements of the Food and Drug Administration regulations 21 CFR 177.1520 and 21 CFR 176.170. These regulations (respectively) allow for the use of the olefin polymer in "articles or components of articles intended for use in contact with food; "or as components of the uncoated or coated food-contact surface of paper and paperboard intended for use in producing, manufacturing, packaging, processing, preparing, treating, packing, transporting or holding aqueous and fatty food." Specific limitations or conditions of use may apply. Contact your Equistar sales representative for more information. **Processing Techniques**NA 217-000 can be applied to paper, foil, cellophane, polyester film and other base stocks by conventional extrusion coating processes. The maximum recommended melt temperature is 625°F. For further recommendations, contact your Equistar sales representative. **Physical Properties**These are typical values and not to be construed as specific product limits. This product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-NA217000-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 lb/in ³	ASTM D1505
Water Vapor Transmission	7.80 g/m ² /day	0.502 g/100 in ² /day	ASTM E96
Melt Flow	5.6 g/10 min	5.6 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	53	53	ASTM D2240
Tensile Strength at Break	12.4 MPa	1800 psi	Type IV specimen; ASTM D638
Elongation at Break	550 %	550 %	Type IV specimen; ASTM D638
Flexural Stiffness	276 MPa	40000 psi	ASTM D790

Thermal Properties	Metric	English	Comments
Vicat Softening Point	92.0 °C	198 °F	ASTM D1525

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