

LyondellBasell Petrothene® NA205000 Low Density Polyethylene, Extrusion Coating Grade

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

Material Notes:

Petrothene NA205000 is an extrusion coating resin especially recommended for high-speed, light weight coating applications. The resin can be drawn to a low coating weight at line speeds in excess of 1,500 fpm with minimum neck-in and no edge weave. It is recommended for flexible pouches, locker wraps, sugar pouches, industrial and multi-wall bags and laminations. Regulatory Status: NA205000 meets the 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 this 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. It is recommended that a melt temperature of 590°F - 620°F be used for light-weight coating applications in conjunction with electrostatic, flame or chemical priming to insure good adhesion. The maximum recommended melt temperature for NA205000 is 625°F. 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-Petrothene-NA205000-Low-Density-Polyethylene-Extrusion-Coating-Grade.php

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in ³	ASTM D1505
Melt Flow	16 g/10 min	16 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	56	56	ASTM D2240
Tensile Strength at Break	10.3 MPa	1500 psi	ASTM D638
Elongation at Break	640 %	640 %	ASTM D638
Flexural Modulus	0.212 GPa	30.7 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Vicat Softening Point	85.0 °C	185 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Melt Temperature	310 - 327 °C	590 - 620 °F	

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