

LyondellBasell Plexar[®] PX2246 Extrudable Tie-Layer Resin - Anhydride Modified HDPE

Category : Polymer , Thermoplastic , Polyethylene (PE) , Anhydride-Modified Polyethylene , HDPE

Material Notes:

General Description Plexar[®] tie-layers are chemically modified resins used to bond unlike materials, primarily in packaging and industrial applications. Common adherents include polyethylene resins and copolymers, such as EVA or EMA, polypropylene, polyamide (nylon), ethylene vinyl alcohol copolymers (EVOH), ionomer and other sealants, polyethylene terephthalate (PET) resins and copolymers, styrenic polymers, metal, paper and many others. Product grades tailored for blown and cast films, sheet and thermoforming, blow molding, extrusion coating and lamination, tubing, pipe, spray coating and other specialty applications are available in pellet and powder form. Contact your Plexar sales and/or Equistar technical service representative for more information and specific recommendations for your application(s).

Process Recommendations A process melt temperature above 410[°]F (210[°]C) is recommended to ensure adhesion between adherents. More specific suggestions can be made only when equipment, process parameters and conditions of use are known. Contact your Equistar Plexar technical service representative for more information.

Regulatory Status PX 2246 meets the requirements for the Food and Drug Administration regulation 21CFR 177.1520 (c) (6) for use as the adhesive component in multi-laminate structures, or as the sealant layer in flexible packaging, in contact with food at temperatures not exceeding 49 [°]C (120 [°]F). Specific limitations or conditions of use may apply. Plexar tie-layers meet the requirements for the Food and Drug Administration regulation 21CFR 175.105 for adhesives. This regulation describes adhesives which may be safely used as components of articles intended for use in packaging, transporting or holding food in accordance with conditions outlined in that regulation. For an adhesive formulation to be used in compliance with Section 175.105, it must be used under conditions that prevent the material from becoming a component of food in more than insignificant, de minimis, amounts. For more information, please contact your Equistar product safety representative. This product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Plexar-PX2246-Extrudable-Tie-Layer-Resin-Anhydride-Modified-HDPE.php

Physical Properties	Metric	English	Comments
Density	0.951 g/cc	0.0344 lb/in ³	ASTM D1505
Oxidative Induction Time (OIT)	>= 80 min	>= 80 min	ASTM D3985
Melt Flow	0.60 g/10 min	0.60 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	24.7 MPa	3580 psi	ASTM D638
Elongation at Break	810 %	810 %	ASTM D885
1% Secant Modulus	738 MPa	107000 psi	ASTM D790

Thermal Properties	Metric	English	Comments
Vicat Softening Point	124 [°] C	255 [°] F	ASTM D1525

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