

Plexar

PX1007

Extrudable Tie Layer Resin

Anhydride-Modified EVA

Melt Index 3.1 Density 0.931

lyondellbasell

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, EVA, EMA, polypropylene, polyamide (nylon), ethylene vinyl alcohol copolymers (EVOH), ionomer and other sealants, polyethylene terephthalate (PET) resins and copolymers, styrenic polymers, metal, and paperboard. Product grades primarily used for blown and cast films, sheet and thermoforming, blow molding, extrusion coating and lamination, tubing, pipe, and other specialty applications are available in pellet form. Contact your Plexar sales and/or Equistar technical service representative for more information and specific recommendations for your application(s).

Regulatory Status

PX1007 meets the requirements for the United States Food and Drug Administration regulation 21CFR 175.105 for adhesives. For more information, please contact your Equistar product safety representative.

Processing Techniques

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.

Typical Properties

Property	Nominal Value	Units	ASTM Test Method
Melt Index	3.1	g/10 min	D1238
Density	0.931	g/cc	D1505
Vicat Softening Point	78	°C	D1525
Blown Film	2.0 mil gauge 2:1 BUR		
Notched Elmendorf Tear, MD (TD)	292 (232)	g	D1922
Tensile Strength @ Yield, MD (TD)	12.7 (7.2)	MPa	D882
Tensile Strength @ Break, MD (TD)	25.0 (22.3)	MPa	D882
Elongation @ Yield, MD (TD)	62 (64)	%	D882
Elongation @ Break, MD (TD)	380 (647)	%	D882
WVTR	54.0	g/m ² /day	F372*

* @ 100% Humidity

Typical Properties; not to be construed as specifications.

LyondellBasell markets this product through the following entities:

Equistar Chemicals, LP
 Basell Sales & Marketing Company B.V.
 Basell Asia Pacific Limited
 Basell International Trading FZE
 LyondellBasell Australia Pty Ltd

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This product(s) may not be used in:

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- (ii) the manufacture of any of the following, without prior written approval by Seller for each specific product and application: U.S. FDA Class II Medical Devices; Health Canada Class II or Class III Medical Devices; European Union Class II Medical Devices; film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned medical devices; packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration; and tobacco related products and applications. Additionally, the product(s) may not be used in: (i) U.S. FDA Class III Medical Devices; Health Canada Class IV Medical Devices; European Class III Medical Devices; (ii) applications involving permanent implantation into the body; (iii) life-sustaining medical applications; and (iv) lead, asbestos or MTBE related applications. All references to U.S. FDA, Health Canada, and European Union regulations include another country's equivalent regulatory classification.

Users should review the applicable Material Safety Data Sheet before handling the product.

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