

Technical Data Sheet

Plexar PX3198

Tie-Layer, LLDPE



Product 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

For regulatory compliance information, see *Plexar* PX3198 [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Film sample used for testing was 2.0 mil gauge, 2:1 BUR.

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Australia and New Zealand; Europe; North America; South & Central America
Application	Barrier Film; Food Packaging Film
Market	Flexible Packaging; Tie-Layer
Processing Method	Blown Film

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	2.7	g/10 min	ASTM D1238
Density, (23 °C)	0.933	g/cm ³	ASTM D1505
Film			
Tensile Strength at Break			
MD	29.4	MPa	ASTM D882
TD	22.5	MPa	ASTM D882
Tensile Strength at Yield			
MD	14.3	MPa	ASTM D882
TD	16.7	MPa	ASTM D882
Tensile Elongation at Break			
MD	700	%	ASTM D882
TD	730	%	ASTM D882
Tensile Elongation at Yield			
MD	12	%	ASTM D882
TD	10	%	ASTM D882

Elmendorf Tear Strength		
MD	63 g	ASTM D1922
TD	610 g	ASTM D1922
Water Vapor Transmission Rate, (38 °C, 100% RH) @ 2 mils	6.3 g/m ² /day	ASTM F372
Thermal		
Vicat Softening Point	109 °C	ASTM D1525

Notes

Film sample used for testing was 2.0 mil gauge, 2:1 BUR.

These are typical property values not to be construed as specification limits.

Processing Techniques

A process melt temperature above 410°F (210°C) is recommended to ensure adhesion between adherents.

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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

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- (i) U.S. FDA Class I or II Medical Devices; Health Canada Class I, II or III Medical Devices; European Union Class I or II Medical Devices;
- (ii) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned medical devices;
- (iii) 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;
- (iv) tobacco related products and applications, electronic cigarettes and similar devices.
- (v) safety components in automotive applications, for example: air bags, air bag unit housings and covers, seat belt mechanisms, brake systems, pedals and pedal supports, steering systems.

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.

All references to U.S. FDA, Health Canada, and European Union regulations include another country's equivalent regulatory classification.

In addition to the above, LyondellBasell may further prohibit or restrict the use of its products in certain applications. For further information, please contact a LyondellBasell representative.

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