Technical Data Sheet

Plexar PX3227

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* PX3227 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

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)	1.7	g/10 min	ASTM D1238
Density, (23 °C)	0.913	g/cm³	ASTM D1505
Film			
Tensile Strength at Break			
MD	28.7	MPa	ASTM D882
TD	22.1	MPa	ASTM D882
Tensile Strength at Yield			
MD	8.8	MPa	ASTM D882
TD	9.7	MPa	ASTM D882
Tensile Elongation at Break			
MD	840	%	ASTM D882
TD	840	%	ASTM D882
Tensile Elongation at Yield			
MD	30	%	ASTM D882
TD	12	%	ASTM D882
Elmendorf Tear Strength			
MD	270	g	ASTM D1922
TD	590	g	ASTM D1922
Water Vapor Transmission Rate, (38 °C, 100% RH) @ 2 mils	5.6	g/m²/day	ASTM F372

Manufacturer website: https://www.lyondellbasell.com/en/

Thermal			
Vicat Softening Point	82	°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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