Technical Data Sheet

Plexar PX5125

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* PX5125 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	Opaque Containers
Market	Flexible Packaging; Tie-Layer
Processing Method	Extrusion Coating

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	6.0	g/10 min	ASTM D1238
Density, (23 °C)	0.924	g/cm³	ASTM D1505
Film			
Tensile Strength at Break			
MD	25.1	MPa	ASTM D882
TD	23.7	MPa	ASTM D882
Tensile Strength at Yield			
MD	11.0	MPa	ASTM D882
TD	10.7	MPa	ASTM D882
Tensile Elongation at Break			
MD	640	%	ASTM D882
TD	730	%	ASTM D882
Tensile Elongation at Yield			
MD	20	%	ASTM D882
TD	9	%	ASTM D882
Elmendorf Tear Strength			
MD	320	g	ASTM D1922
TD	690	g	ASTM D1922
Water Vapor Transmission Rate, (38 °C, 100% RH) @ 2 mils	7.5	g/m²/day	ASTM F372

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

Thermal			
Vicat Softening Point	96	°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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