

Plexar® PX5125

Ethylene Vinyl Acetate Copolymer

LyondellBasell Industries

Message:

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).

General Information			
Uses	Packaging		
	Films		
	Industrial application		
Agency Ratings	FDA 21 CFR 175.105		
Forms	Particle		
Processing Method	Film extrusion		
	Blow film		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	51	µm	
Tensile Strength			ASTM D882
MD: Yield, 51 µm, blown film	11.0	MPa	ASTM D882
TD: Yield, 51 µm, blown film	10.7	MPa	ASTM D882
MD: Broken, 51 µm, blown film	25.1	MPa	ASTM D882
TD: Broken, 51 µm, blown film	23.7	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: yield, 51 µm, blow film	20	%	ASTM D882
TD: yield, 51 µm, blow film	9.0	%	ASTM D882
MD: Broken, 51 µm, blown film	640	%	ASTM D882
TD: Broken, 51 µm, blown film	730	%	ASTM D882
Elmendorf Tear Strength			ASTM D1922
MD: 51 µm, blown film	320	g	ASTM D1922
TD: 51 µm, blown film	690	g	ASTM D1922

Water Vapor Transmission Rate (100% RH, 51 µm, Blown Film)	7.5	g/m ² /24 hr	ASTM F372
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	96.0	°C	ASTM D1525

Additional Information

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.


Extrusion	Nominal Value	Unit
Melt Temperature	> 210	°C

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