Plexar® PX1775

Low Density Polyethylene

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 Industrial application		
Agency Ratings	FDA 21 CFR 175.105		
Forms	Particle		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.922	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.0	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	8.70	MPa	ASTM D882
MD: Broken, 51 µm, blown film	17.7	MPa	ASTM D882
TD: Broken, 51 µm, blown film	13.7	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: yield, 51 µm, blow film	21	%	ASTM D882
TD: yield, 51 µm, blow film	10	%	ASTM D882
MD: Broken, 51 µm, blown film	260	%	ASTM D882
TD: Broken, 51 µm, blown film	470	%	ASTM D882
Elmendorf Tear Strength			ASTM D1922
MD: 51 µm, blown film	390	g	ASTM D1922
TD: 51 µm, blown film	180	g	ASTM D1922
Water Vapor Transmission Rate (100% RH, 51 µm, Blown Film)	7.4	g/m²/24 hr	ASTM F372
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	94.0	°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

Recommended distributors for this material

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