EQUISTAR
A Lyondell Company

Plexar®

PX3080

Extrudable Tie Layer Resin
Anhydride Modified LLDPE
Melt Index 1.8 Density 0.910 Pellet

General 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, such as EVA or EMA, polypropylene, polyamide (nylon), ethylene vinyl alcohol copolymers (EVOH), ionomer and other sealants, polyethylene terephthalate (PET) resins and copolymers, styrenic polymers, metal, paper and many others. Product grades tailored for blown and cast films, sheet and thermoforming, blow molding, extrusion coating and lamination, tubing, pipe, spray coating 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

PX3080 meets the requirements for the Food and Drug Administration regulation 21CFR 175.105 for adhesives. This regulation describes adhesives which may be safely used as components of articles intended for use in packaging, transporting or holding food in accordance with conditions outlined in that regulation. For an adhesive formulation to be used in compliance with Section 175.105, it must be used under conditions that prevent the material from becoming a component of food in more than insignificant, *de minimis,* amounts. For more information, please contact your Lyondell product safety representative.

Processing Techniques

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. Contact your Equistar Plexar technical service representative for more information.

Typical Properties

Property	Nominal Value	Units	ASTM Test Method
Melt Index	1.8	g/10 min	D 1238
Density	0.910	g/cc	D 1505
Vicat Softening Point	98.0	°C	D 1525
Blown Film	**2.0 mil gauge; 2:1 BUR**		
Notched Elmendorf Tear, MD (TD)	840 (1,030)	g	D 1922
Tensile Strength @ Yield, MD (TD)	8.8 (9.7)	Mpa	D 882
Tensile Strength @ Break, MD (TD)	22.8 (22.2)	Mpa	D 882
Elongation @ Yield, MD (TD)	16 (7)	%	D 882
Elongation @ Break, MD (TD)	790 (800)	%	D 882
WVTR	8.9	g/m²/day	F372*

* @ 100% Humidity