

## LyondellBasell Plexar® PX2049 Extrudable Tie-Layer Resin - Anhydride Modified HDPE (discontinued \*\*)

Category : Polymer , Thermoplastic , Polyethylene (PE) , Anhydride-Modified Polyethylene , HDPE

### Material Notes:

**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 blow 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). **Process Recommendations** A process melt temperature above 410°F 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 technical service representative for more information. **Regulatory Status** Plexar tie-layers meet 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 Sections 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 Equistar product safety representative. **Other Information** Cast Film 2.2 mil gauge This product is from the former Equistar product line.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LyondellBasell-Plexar-PX2049-Extrudable-Tie-Layer-Resin-Anhydride-Modified-HDPE-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_LyondellBasell-Plexar-PX2049-Extrudable-Tie-Layer-Resin-Anhydride-Modified-HDPE-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	0.957 g/cc	0.0346 lb/in <sup>3</sup>	ASTM D1505
Water Vapor Transmission	4.30 g/m <sup>2</sup> /day	0.277 g/100 in <sup>2</sup> /day	100% Humidity; ASTM F372
Thickness	50.8 microns	2.00 mil	2:1 BUR
Melt Flow	5.7 g/10 min	5.7 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	21.7 MPa	3150 psi	ASTM D882
Film Tensile Strength at Yield, TD	23.2 MPa	3360 psi	ASTM D882
Film Elongation at Break, MD	610 %	610 %	ASTM D882
Film Elongation at Break, TD	710 %	710 %	ASTM D882
Film Elongation at Yield, MD	4.0 %	4.0 %	ASTM D882
Film Elongation at Yield, TD	2.0 %	2.0 %	ASTM D882

Mechanical Properties	Metric	English	Comments
Elmendorf Tear Strength TD	110 g	110 g	ASTM D1922
Film Tensile Strength at Break, MD	24.1 MPa	3500 psi	ASTM D882
Film Tensile Strength at Break, TD	21.4 MPa	3100 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	125 °C	257 °F	ASTM D1525

## Contact Songhan Plastic Technology Co.,Ltd.

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