# LyondellBasell PlexarÂ® PX1007 Extrudable Tie-Layer Resin - Anhydride Modified EVA

**Category :** Polymer , Film , Thermoplastic , Ethylene Vinyl Acetate

**Material Notes:**

ApplicationsPlexarÂ® 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 and powder form.Regulatory StatusPlexar 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 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.ProcessingA 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. This product is from the former Equistar product line.

Order this product through the following link:
http://www.lookpolymers.com/polymer_LyondellBasell-Plexar-PX1007-Extrudable-Tie-Layer-Resin-Anhydride-Modified-EVA.php

| Physical Properties | Metric | English | Comments |
|---|---|---|---|
| Density | 0.931 g/cc | 0.0336 lb/inÂ³ | ASTM D1505 |
| Water Vapor Transmission | 54.0 g/mÂ²/day | 3.48 g/100 inÂ²/day | 100% Humidity; ASTM F372 |
| Thickness | 50.8 microns | 2.00 mil | 2:1 BUR |
| Melt Flow | 3.1 g/10 min | 3.1 g/10 min | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|---|---|---|---|
| Film Tensile Strength at Yield, MD | 12.7 MPa | 1840 psi | ASTM D882 |
| Film Tensile Strength at Yield, TD | 7.20 MPa | 1040 psi | ASTM D882 |
| Film Elongation at Break, MD | 380 % | 380 % | ASTM D882 |
| Film Elongation at Break, TD | 647 % | 647 % | ASTM D882 |
| Film Elongation at Yield, MD | 62 % | 62 % | ASTM D882 |
| Film Elongation at Yield, TD | 64 % | 64 % | ASTM D882 |
| Elmendorf Tear Strength MD | 292 g | 292 g | Notched; ASTM D1922 |
| Elmendorf Tear Strength TD | 232 g | 232 g | Notched; ASTM D1922 |

| Mechanical Properties | Metric | English | Comments |
|---|---|---|---|
| Elmendorf Tear Strength, TD | 6.54 g/micron | 166 g/mil | based on 2 mil film; ASTM D1922 |
| Film Tensile Strength at Break, MD | 25.0 MPa | 3630 psi | ASTM D882 |
| Film Tensile Strength at Break, TD | 22.3 MPa | 3230 psi | ASTM D882 |

| Thermal Properties | Metric | English | Comments |
|---|---|---|---|
| Vicat Softening Point | 78.0 Â°C | 172 Â°F | ASTM D1525 |

| Processing Properties | Metric | English | Comments |
|---|---|---|---|
| Melt Temperature | >= 210 Â°C | >= 410 Â°F | |

## Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China