

LyondellBasell Plexar® PX3060 Extrudable Tie-Layer Resin - Anhydride Modified LLDPE

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

Material Notes:

ApplicationsPlexar® 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. 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-PX3060-Extrudable-Tie-Layer-Resin-Anhydride-Modified-LLDPE.php

Physical Properties	Metric	English	Comments
Density	0.924 g/cc	0.0334 lb/in ³	ASTM D1505
Water Vapor Transmission	6.20 g/m ² /day	0.399 g/100 in ² /day	100% Humidity; ASTM F372
Thickness	50.8 microns	2.00 mil	2:1 BUR
Melt Flow	2.2 g/10 min	2.2 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	12.6 MPa	1830 psi	ASTM D882
Film Tensile Strength at Yield, TD	14.2 MPa	2060 psi	ASTM D882
Film Elongation at Break, MD	760 %	760 %	ASTM D882
Film Elongation at Break, TD	760 %	760 %	ASTM D882
Film Elongation at Yield, MD	16 %	16 %	ASTM D882
Film Elongation at Yield, TD	10 %	10 %	ASTM D882
Elmendorf Tear Strength MD	117 g	117 g	Notched; ASTM D1922
Elmendorf Tear Strength TD	564 g	564 g	Notched; ASTM D1922

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Break, TD	23.9 MPa	3470 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	100 Â°C	212 Â°F	ASTM D1525

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

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