

Lotte Chemical Titan TITANLENE[®] LDF250YZ Low density polyethylene

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Extrusion Grade

Material Notes:

LDF250YZ is a low density polyethylene resin for film extrusion. LDF250YZ has no slip and anti-block additives. LDF250YZ meets the U.S. Food and Drug Administration (FDA) criteria for food contact use as specified in 21 CFR 177.1520 (c) 2.1 & (c) 2.2. Applications: Medium duty shrink film Shopper bags Form fill and seal packaging Additives: Barefoot Advantages: Good mechanical properties and stiffness Information provided by Titan Chemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lotte-Chemical-Titan-TITANLENE-LDF250YZ-Low-density-polyethylene.php

Physical Properties	Metric	English	Comments
Base Resin Density	0.922 g/cc	0.0333 lb/in ³	ASTM D1505
Thickness	50.0 microns	1.97 mil	extruded at 2.5:1 BUR
Base Resin Melt Index	0.75 g/10 min	0.75 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	370 %	370 %	ASTM D882
Film Elongation at Break, TD	560 %	560 %	ASTM D882
Elmendorf Tear Strength, MD	7.00 g/micron	178 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	4.00 g/micron	102 g/mil	ASTM D1922
Dart Drop	4.00 g/micron	102 g/mil	ASTM D1709
Film Tensile Strength at Break, MD	27.5 MPa	3990 psi	ASTM D882
Film Tensile Strength at Break, TD	24.5 MPa	3550 psi	ASTM D882
1% Secant Modulus, MD	215.74 MPa	31291 psi	ASTM D882
1% Secant Modulus, TD	235.36 MPa	34136 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	93.0 Â°C	199 Â°F	resin; ASTM D1525

Processing Properties	Metric	English	Comments
Melt Temperature	160 - 190 Â°C	320 - 374 Â°F	
Blow-up Ratio (BUR)	1.5 - 3.0	1.5 - 3.0	

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