

BiologiQ ESR-PE EcoStarch mLLDPE Blend

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE), Film Grade

Material Notes:

Properties of 70% mLLDPE, 25% ESR, 5% additive blend - thin film
Information provided by BiologiQ

Order this product through the following link:

http://www.lookpolymers.com/polymer_BiologiQ-ESR-PE-EcoStarch-mLLDPE-Blend.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D792
Water Vapor Transmission	24.0 - 30.0 g/m ² /day	1.55 - 1.93 g/100 in ² /day	100% RH; 39°C
Oxygen Transmission	84.4 - 96.0 cc-mm/m ² -24hr-atm	214 - 244 cc-mil/100 in ² -24hr-atm	0% RH
Melt Flow	0.47 g/10 min @Load 2.16 kg, Temperature 190 °C	0.47 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	605 - 659 %	605 - 659 %	ASTM D882
Film Elongation at Break, TD	632 - 696 %	632 - 696 %	ASTM D882
Elmendorf Tear Strength, MD	14.2 - 19.4 g/micron	360 - 494 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	22.8 - 28.5 g/micron	580 - 724 g/mil	ASTM D1922
Dart Drop	11.8 - 13.4 g/micron	300 - 340 g/mil	ASTM D1709
Film Tensile Strength at Break, MD	0.0283 - 0.0338 MPa	4.10 - 4.90 psi	ASTM D882
Film Tensile Strength at Break, TD	0.0248 - 0.0345 MPa	3.60 - 5.00 psi	ASTM D882
Heat Seal Strength	1400 g/25 mm	3.09 lb/in	40 PSI; 0.5 SEC
Heat Seal Strength Initiation Temperature	130 - 180 °C	266 - 356 °F	

Thermal Properties	Metric	English	Comments
Melting Point	130 °C	266 °F	ASTM D3418

Optical Properties	Metric	English	Comments
Transmission, Visible	2.0 - 4.0 %	2.0 - 4.0 %	ASTM D1746

Optical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Moisture Content	>= 0.35 %	>= 0.35 %	ASTM D6980

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