ExxonMobil LLDPE LL 1002.09 Linear Low Density Polyethylene Resin

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE

Material Notes:

Product Description: LL 1002 resins are butane LLDPE designed for the blown film process. Films made form LL 1002 resins have very good tensile and toughness properties. LL 1002.09 is a granular material which, while it can be used for film production, is also suitable for compounding.Availability: Latin America, North America and South America Additive: Antiblock: NoSlip: NoProcessing Aid: NoThermal Stabilizer: YesApplications: Agricultural FilmBag in BoxBlown FilmCast FilmFood packagingForm Fill and Seal PackagingFreezer FilmGarment FilmGeneral PackagingIndustrial Packaging LinersMulch FilmPackaging FilmsProduce Bags on a Roll Shoppers Trash Can LinersInformation provided by ExxonMobil

Order this product through the following link:
http://www.lookpolymers.com/polymer_ExxonMobil-LLDPE-LL-100209-Linear-Low-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in³	ExxonMobil method
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 190 °C	2.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	8.27 MPa	1200 psi	ASTM D882
Film Tensile Strength at Yield, TD	8.27 MPa	1200 psi	ASTM D882
Film Elongation at Break, MD	660 %	660 %	ASTM D882
Film Elongation at Break, TD	780 %	780 %	ASTM D882
Puncture Energy	1.10 J	0.808 ft-lb	ExxonMobil Method
Elmendorf Tear Strength MD	120 g	120 g	ASTM D1922
Elmendorf Tear Strength TD	340 g	340 g	ASTM D1922
Dart Drop Test	70.0 g	0.154 lb	ASTM D1709A
Film Tensile Strength at Break, MD	36.5 MPa	5300 psi	ASTM D882
Film Tensile Strength at Break, TD	26.2 MPa	3800 psi	ASTM D882
1% Secant Modulus, MD	179 MPa	26000 psi	ASTM D882
1% Secant Modulus, TD	193 MPa	28000 psi	ASTM D882

Thermal Properties	Metric	English	Comments

Thermal Properties	Metric	English	Comments
Melting Point	253 °C	487 °F	Peak Melting Point; ExxonMobil method

Optical Properties	Metric	English	Comments
Haze	29 %	29 %	ASTM D1003
Gloss	22 %	22 %	45°; ASTM D2457

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