

LyondellBasell Montell 12C01G5 Clarity LLDPE

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

Material Notes:

Key Features: clarity LLDPE resins for film extrusion applications, excellent optical properties, easy processing, high strength, good stiffness, FDA acceptable, very high slip, medium antiblock

Applications: food and non-food packaging, lamination films, coextruded structures

Meets FDA requirements in 21 CFR 177.1520 for all food contact, including cooking applications.

Description: 12C01 clarity LLDPE film resin combine ease of processing with excellent optics and high film strength. These resins are well suited to replace LLDPE/LDPE blends in blown film applications. This resin meets FDA requirements in the Code of Federal Regulations in 21 CFR 177.1520 for all food contact, including cooking applications. All ingredients meet the chemical registration requirements of TSCA and DSL. Information provided by Montell Polyolefins. LyondellBasell is the successor company to Montell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Montell-12C01G5-Clarity-LLDPE.php

Physical Properties	Metric	English	Comments
Density	0.912 g/cc	0.0329 lb/in ³	ASTM D792
Thickness	25.4 microns	1.00 mil	
Melt Flow	0.95 g/10 min @Load 2.16 kg, Temperature 230 °C	0.95 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	12.4 MPa	1800 psi	ASTM D882
Film Elongation at Break, MD	600 %	600 %	ASTM D882
Film Elongation at Break, TD	800 %	800 %	ASTM D882
Secant Modulus, MD	0.179 GPa	26.0 ksi	ASTM D882
Secant Modulus, TD	0.193 GPa	28.0 ksi	ASTM D882
Elmendorf Tear Strength MD	100 g	100 g	ASTM D1922A
Elmendorf Tear Strength TD	460 g	460 g	ASTM D1922A
Elmendorf Tear Strength, MD	3.94 g/micron	100 g/mil	ASTM D1922A
Elmendorf Tear Strength, TD	18.1 g/micron	460 g/mil	ASTM D1922A
Dart Drop	3.94 g/micron	100 g/mil	ASTM D1709
Dart Drop Test	100 g	0.221 lb	ASTM D1709A
Film Tensile Strength at Break, MD	37.9 MPa	5500 psi	ASTM D882

Mechanical Properties	Metric	English	Comments
Impact Break, TD	Pa		
Optical Properties	Metric	English	Comments
Gloss	70 - 80 %	70 - 80 %	at 45°; ASTM D523
Transmission, Visible	90 %	90 %	clear; thickness not quantified

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