

ExxonMobil LDPE LD 151HR Low Density Polyethylene Resin

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

Material Notes:

Product Description: LD 151 series LDPE grades offer an excellent combination of high clarity with high stiffness. Several additive packages are available according to the required surface properties. **Availability:** Africa & Middle East and Europe **Additive:** Antiblock: 400 ppm **Slip:** 650 ppm **Thermal Stabilizer:** Yes **Applications:** Cast Film Co-Extrusion Films Embossed Film Hygiene Packaging Label Film Overwrap Film Paper Overwrap Information provided by ExxonMobil

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-LDPE-LD-151HR-Low-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.934 g/cc	0.0337 lb/in ³	ExxonMobil method
Melt Flow	3.0 g/10 min @Load 2.16 kg, Temperature 190 °C	3.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
Antiblock Level	400 ppm	400 ppm	
Slip Level	650 ppm	650 ppm	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, TD	17.2 MPa	2500 psi	ASTM D882
Film Elongation at Break, MD	370 %	370 %	ASTM D882
Film Elongation at Break, TD	610 %	610 %	ASTM D882
Elmendorf Tear Strength MD	90 g	90 g	ASTM D1922
Elmendorf Tear Strength TD	180 g	180 g	ASTM D1922
Dart Drop Test	60.0 g	0.132 lb	ASTM D1709A
Film Tensile Strength at Break, MD	26.2 MPa	3800 psi	ASTM D882
Film Tensile Strength at Break, TD	20.7 MPa	3000 psi	ASTM D882
1% Secant Modulus, MD	379 MPa	55000 psi	ASTM D882
1% Secant Modulus, TD	441 MPa	64000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	<= 241 °C	<= 466 °F	Peak Melting Point; ExxonMobil method

Optical Properties	Metric	English	Comments
Haze	6.0 %	6.0 %	ASTM D1003
Gloss	73 %	73 %	45°; ASTM D2457

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