

ExxonMobil™ LLDPE LL 1001AV Blown

Linear Low Density Polyethylene Resin

Product Description

ExxonMobil™ LL 1001AV is an ethylene 1-butene linear low density polyethylene resin that offers excellent drawdown and puncture resistance combined with high gloss and clarity. It is frequently used as a blend partner with LDPE resins to improve film properties and processability. TnPP is not intentionally added to LL 1001AV resin.

General					
Availability ¹	 Africa & Middle East 		 Europe 		
	 Asia Pacific 		 Latin America 		
Additive	 Antiblock: No 		Processing Aid: No		
	Slip: No		 Thermal Stabilizer: Yes 		
Applications	 Agricultural Film 		 Garment Film Multilayer Packaging Film 		
	Bag in Box		General Packaging Packaging Films Packaging Films		
	Barrier Food PackagingBlown Film		Heavy Duty BagsIce BagsRefuse Bags		
	Bread Bags		Industrial LinersShoppers		3
	 Food Packaging 		 Industrial Packaging 	Stand Up PouchesTrash Bags	
	 Form Fill And Seal Packaging 		 Lamination Film 		
	 Freezer Film 	5 5	 Liners 		3
Form(s)	 Pellets 				
Revision Date	• 06/11/2020				
Resin Properties	Typical Value	(Fnalish)	Typical Value	(SI)	Test Based On
Density / Specific Gravity	0.918	_		g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)		g/10 min		g/10 min	ASTM D1238
Peak Melting Temperature	248		120		ExxonMobil
					Method
hermal Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Vicat Softening Temperature	207	°F	97.0	°C	ExxonMobil
					Method
Film Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield MD	1400	psi	9.3	MPa	ASTM D882
Tensile Strength at Yield TD	1500	psi	10	MPa	ASTM D882
Tensile Strength at Break MD	6500	psi	45	MPa	ASTM D882
Tensile Strength at Break TD	5200	psi	36	MPa	ASTM D882
Elongation at Break MD	550	%	550	%	ASTM D882
Elongation at Break TD	910	%	910		ASTM D882
Secant Modulus MD - 1% Secant	26000	psi	180	MPa	ASTM D882
Secant Modulus TD - 1% Secant	31000	psi		MPa	ASTM D882
Dart Drop Impact	90		90		ASTM D1709A
Elmendorf Tear Strength MD	110		110		ASTM D1922
Elmendorf Tear Strength TD	450		450		ASTM D1922
Puncture Force	9	lbf	40	N	ExxonMobil Method
Puncture Energy	26	in·lb	3.0	J	ExxonMobil Method
Optical Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Gloss (45°)	51		51		ASTM D2457
Haze	18	%	18	%	ASTM D1003

Effective Date: 06/11/2020 ExxonMobil Page: 1 of 2

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Legal Statement

Tris(nonylphenol)phosphite (TNPP) CAS# 26523-78-4 is not intentionally used by ExxonMobil in this product. Although this product is not routinely tested for its presence, based on product composition knowledge this substance is not expected to be present. However, the fact that this substance is not intentionally used by ExxonMobil in this product does not exclude that trace levels of this substance may be present as a result of the specific characteristics of the raw materials and/or of the manufacturing process.

This product is not intended for use in medical applications and should not be used in any such applications.

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

Processing Statement

Film (1.0 mil/25.4 micron) made from LL 1001AV resin on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 395-415°F (202-213°C), a 60 mil (1.52 mm) die gap at a rate of 10 lbs/hr/in die circumference (1.79 kg/hr/cm).

Notes

Typical properties: these are not to be construed as specifications.

¹ Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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