ExonMobil

ExxonMobil[™] LLDPE LL 1002BU Linear Low Density Polyethylene Resin

Product Description

ExxonMobil[™] LL 1002BU resin is an ethylene 1-butene linear low density polyethylene designed for the blown film process. It offers high gloss and excellent draw down. Films made from LL 1002BU have very good tensile and toughness properties. TnPP is not intentionally added to LL 1002BU resin.

General						
Availability ¹	 Africa & Middle East 		 Asia Pacific 			
Additive	Antiblock: 3500 ppmSlip: 1500 ppm		 Processing Aid: No Thermal Stabilizer: Yes 			
Applications	Agricultural Film		Garment Film	 Multilay 	er Packaging Film	
	Bag in BoxBlown Film		 General Packaging 		 Packaging Films 	
			 Industrial Packaging 	 Personal Care 		
	 Cast Film 		 Institutional Can Liners 	 Production 	 Produce Bags On A Roll Shoppers Trash Can Liners 	
	 Food Packaging 		 Lamination Film 	 Shoppe 		
	 Form Fill And Seal Page 		Liners	 Trash C 		
	 Freezer Film 		 Mulch Film 			
Form(s)	 Pellets 					
Revision Date	• 06/11/2020					
Resin Properties	Typical Value	(Enalish)	Typical Value	(SI)	Test Based On	
Density / Specific Gravity	0.918		/ 1	g/cm ³	ASTM D792	
Melt Index (190°C/2.16 kg)		g/10 min		g/10 min	ASTM D1238	
Peak Melting Temperature	253		123		ExxonMobil	
	Durantural				Method	
	Product	non	iraaing Serv).,LTA	
Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On	
Vicat Softening Temperature	201	°F	94.0	°C	ExxonMobil Method	
Film Properties	Typical Value	(Epolich)	Typical Value	(51)	Test Based On	
Tensile Strength at Yield MD	1300	-	/1	MPa	ASTM D882	
Tensile Strength at Yield TD	1400	1		MPa	ASTM D882	
Tensile Strength at Break MD		psi		MPa	ASTM D882	
Tensile Strength at Break TD		psi		MPa	ASTM D882	
Elongation at Break MD	620	1	620	%	ASTM D882	
Elongation at Break TD	770	%	770	%	ASTM D882	
Secant Modulus MD - 1% Secant	25000	psi	170	MPa	ASTM D882	
Secant Modulus TD - 1% Secant		psi		MPa	ASTM D882	
Dart Drop Impact	< 60	g	< 60	g	ASTM D1709A	
Elmendorf Tear Strength MD	110	-	110		ASTM D1922	
Elmendorf Tear Strength TD	390	-	390	-	ASTM D1922	
Puncture Force	5	lbf	21	Ν	ExxonMobil Method	
Puncture Energy	7.1	in·lb	0.80	J	ExxonMobil Method	
Optical Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On	
Gloss (45°)	28		28		ASTM D2457	
Haze	23	%	23	%	ASTM D1003	

Linear Low Density Polyethylene Resir

Legal Statement

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

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.

Processing Statement

Production Trading Service Co.,Ltd

Film (1.0 mil/25.4 micron) made 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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