

# ExxonMobil™ LLDPE LL 1004YB Wire & Cable

Linear Low Density Polyethylene Resin

ExxonMobil Chemical

Message:

LL 1004YB is a C4 Ziegler-Natta linear low-density polyethylene, specially developed for the production of low-voltage cable insulators using a two-step silane crosslinking process. This brand has high antioxidant content and excellent environmental stress cracking resistance. A sufficient amount of copper inhibitor should be added to make the product meet the insulator aging requirements. When used in insulator materials, carbon black or ultraviolet stabilizer is required.

General Information			
Additive	heat stabilizer		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.8	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	47		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	12.0	MPa	ASTM D638
Fracture	14.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	20	%	ASTM D638
Fracture	690	%	ASTM D638
Flexural Modulus - 1% Secant	310	MPa	ASTM D790
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+16	ohms·cm	ASTM D257
Dielectric Constant (60 Hz)	2.20		ASTM D150
Dissipation Factor (60 Hz)	< 4.0E-4		ASTM D150
Legal statement			

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