

Prixene® EL010E20

Linear Low Density Polyethylene

POLYMAT

Message:

Prixene® EL010E20 is a Linear Low Density Polyethylene natural resin designed for wire and cable applications, contains a low level of antioxidants and does not contain any antiblock and/or slip agents. It also exhibits excellent ESCR. Sufficient Cu-inhibitor should be added to meet specific ageing requirements. For jacketing applications, addition of Carbon Black or UV stabilizer is required.

Typical applications are Telecommunication and Power cable and halogen-free flame retardant. This product herein is in particular not tested and therefore not validated for use in pharmaceutical and medical applications.

The product form is in pellets. LLDPE for blow film. The material contains additives. The material complies with FDA regulation title 21.CFR177.1520 (. C) 3.2a

General Information			
Additive	Antioxidant		
Features	Halogen Free		
	High ESCR (Stress Crack Resist.)		
Uses	Power Cable Jacketing		
	Wire & Cable Applications		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Blow Molding		
	Film Extrusion		

Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238

Films	Nominal Value	Unit	Test Method
Secant Modulus			ASTM D882
1% Secant, MD : 25 µm	200	MPa	
1% Secant, TD : 25 µm	228	MPa	
Tensile Strength			ASTM D882
MD : Yield,25 µm	9.65	MPa	
TD : Yield,25 µm	10.3	MPa	
MD : Break, 25 µm	60.7	MPa	
TD : Break, 25 µm	51.0	MPa	
Tensile Elongation			ASTM D882
MD : Break, 25 µm	540	%	
TD : Break, 25 µm	740	%	

Dart Drop Impact (25 μm)	200	g	ASTM D1709A
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 24.9 μm, Blown Film)	65		ASTM D2457
Haze (24.9 μm)	7.6	%	ASTM D1003

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Recommended distributors for this material

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