

# KPOL-LDPE LD K-0.30/921

Low Density Polyethylene

KPOL Chem Co.

Message:

Low Density Polyethylene Excellent Processability

Characteristics

KPOL - LD K-0.30/921 is a low density polyethylene grade, produced by high pressure, suitable for blown or cast film applications. This material offers easy processability and good balance of mechanical and optical properties. It contains antioxidant additive.

Applications

General packaging film , Shrink film with high mechanical resistance, Heavy duty sacks , Blends with HDPE and LLDPE for Extrusion and Molding Processes and use in Blow Molding Applications. Excellent toughness, good clarity and processability an ideal choice for flexible containers, squeeze bottles and toys.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Good Processability		
	Good Toughness		
	High Clarity		
	Low Density		
	Opticals		
Uses	Blending		
	Blown Film		
	Cast Film		
	Containers		
	Heavy-duty Bags		
	Packaging		
	Squeeze Bottles		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Blow Molding		
	Blown Film		
	Cast Film		
Physical	Nominal Value	Unit	Test Method
Density	0.921	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.30	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	48		ASTM D2240
Films	Nominal Value	Unit	Test Method

Secant Modulus			ASTM D882
2% Secant, MD	135	MPa	
2% Secant, TD	155	MPa	
Tensile Strength			ASTM D882
MD : Break	25.0	MPa	
TD : Break	20.0	MPa	
Tensile Elongation			ASTM D882
MD : Break	380	%	
TD : Break	690	%	
Dart Drop Impact <sup>1</sup>	190	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD	290	g	
TD	220	g	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	90.0	°C	ASTM D1525 <sup>2</sup>
Optical	Nominal Value	Unit	Test Method
Gloss			ASTM D2457
45°	48		
60°	71		
Haze	14	%	ASTM D1003
NOTE			
1.	F50		
2.	Rate A (50°C/h), Loading 1 (10 N)		

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#### Recommended distributors for this material

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