

# KPOL-LDPE LD K-8/918

Low Density Polyethylene

KPOL Chem Co.

## Message:

Low Density Polyethylene Excellent Processability

### Characteristics

The KPOL® resin is a low density polyethylene specially, developed for injection molding and extrusion coating. It exhibits high toughness with good flexibility and reasonable environmental stress cracking resistance and is therefore typically used for flexibles and tough articles.

### Applications

Injection Molding of general purpose, thin parts like cups, closures, appliances, covers, is suitable for multipurpose extrusion coating applications, and carrier for masterbatches, etc.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	General Purpose		
	Good Flexibility		
	Good Toughness		
Uses	Appliances		
	Closures		
	Cups		
	Protective Coverings		
	Thin-walled Containers		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Coating		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	43		ASTM D2240
Films	Nominal Value	Unit	Test Method
Secant Modulus - 1% Secant, MD	76.0	MPa	ASTM D882
Tensile Strength			ASTM D882
MD : Break	25.0	MPa	
TD : Break	20.0	MPa	
Tensile Elongation			ASTM D882
MD : Break	390	%	

TD : Break	890	%	
Dart Drop Impact <sup>1</sup>	82	g	ASTM D1709
Elmendorf Tear Strength - TD	54	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	87.0	°C	ASTM D1525 <sup>2</sup>
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	75		ASTM D2457
Haze	10	%	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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