

KPOL-LDPE LD K-12/923

Low Density Polyethylene

KPOL Chem Co.

Message:

Low Density Polyethylene, Excellent Processability

Applications

Injection Molding of general purpose, thin parts like cups, closures, appliances, covers, etc.

Characteristics

The KPOL® resin is a low density polyethylene specially, developed for injection molding. It shows good flow and flexibility properties.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Food Contact Acceptable		
	Good Flexibility		
	Good Flow		
	Good Processability		
	Low Density		
Uses	Appliances		
	Closures		
	Cups		
	General Purpose		
	Thin-walled Parts		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	12	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	42		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	12.0	MPa	ASTM D638
Tensile Elongation ² (Break)	140	%	ASTM D638
Flexural Modulus - 1% Secant	350	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	86.0	°C	ASTM D1525 ³
NOTE			

1.	Type IV, 50 mm/min
2.	Type IV, 50 mm/min
3.	Rate A (50°C/h), Loading 1 (10 N)

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