

KPOL-LDPE LD K-I 14/920B

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.

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, typically suitable for injection moulding application, frequently used for caps & closures.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	General Purpose		
	Good Flexibility		
	Good Toughness		
	Low Density		
Uses	Caps		
	Closures		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	14	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	40		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	10.0	MPa	ASTM D638
Tensile Elongation ² (Break)	140	%	ASTM D638
Flexural Modulus - 1% Secant	3200	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	88.0	°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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