

# KPOL-HDPE HD K-I 2/949

High Density Polyethylene

KPOL Chem Co.

Message:

High Density Polyethylene

Applications

Industrial caps and closures, overcaps, lids, industrial pails, packaging, drum lids and injection molding.

Characteristics

The KPOL® resin is a bimodal high-density polyethylene, developed for the injection molding. It is a controlled rheology grade.

Very narrow molecular weight distribution; Excellent impact strength, stress crack resistance and processability.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Food Contact Acceptable		
	Good Processability		
	High Density		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
	Narrow Molecular Weight Distribution		
Uses	Caps		
	Closures		
	Industrial Applications		
	Lids		
	Packaging		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.949	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (3.20 mm, F50)	< 10.0	hr	ASTM D1693A
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	26.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	1200	%	ASTM D638
Flexural Modulus - 1% Secant <sup>3</sup> (3.20 mm)	1250	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	52	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	78.0	°C	ASTM D648
Vicat Softening Temperature	129	°C	ASTM D1525

#### NOTE

1. Type IV, 50 mm/min
2. Type IV, 50 mm/min
3. 13 mm/min

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#### Recommended distributors for this material

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