

# KPOL-HDPE HD K-I 14/960

High Density Polyethylene

KPOL Chem Co.

Message:

High Density Polyethylene HDPE Homopolymer

Characteristics

This resin has a good melt flow with high rigidity and hardness. Its narrow molar mass distribution results in a low tendency to warpage.

Applications

KPOL® HD K-I 14/960 is a high-density polyethylene, developed for the injection molding, easy to process and with high productivity. Applications : Caps, crates for industrial, transportation or fishing uses, buckets, stands and pallets, trash containers, bottle cases, safety helmets, cages for poultry transportation, sporting goods and Housewares, toys and general purpose containers for indoor applications.

General Information			
Additive	Antioxidant (300 to 600 ppm)		
	UV Stabilizer		
Features	Antioxidant		
	Good Flow		
	Good Processability		
	Good UV Resistance		
	High Density		
	High Hardness		
	High Rigidity		
	Homopolymer		
	Low Warpage		
	Narrow Molecular Weight Distribution		
Uses	Caps		
	Containers		
	Crates		
	Household Goods		
	Safety Helmets		
	Sporting Goods		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.960	g/cm³	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)	58		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	27.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	12	%	ASTM D638
Flexural Modulus - 1% Secant	1250	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	33	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	127	°C	ASTM D1525 <sup>3</sup>
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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#### Recommended distributors for this material

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