

# KPOL-HDPE HD K-20/960

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-20/960 is a high-density polyethylene, developed for the injection molding, easy to process and with high productivity. Applications : food containers, toys, caps, closures, pails & basins and general purpose containers for indoor.

General Information			
Additive	Antioxidant (300 to 600 ppm)		
Features	Antioxidant		
	Good Flow		
	Good Processability		
	High Density		
	High Hardness		
	High Rigidity		
	Homopolymer		
	Low Warpage		
	Narrow Molecular Weight Distribution		
Uses	Caps		
	Closures		
	Containers		
	Food Containers		
	Pails		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.960	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	64		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	28.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	10	%	ASTM D638
Flexural Modulus - 1% Secant	1200	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	32	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	77.0	°C	ASTM D648
Vicat Softening Temperature	125	°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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