KPOL-HDPE HD K-I 5.0/962

High Density Polyethylene

KPOL Chem Co.

Message:

High Density Polyethylene Injection molding grade
Characteristics
The KPOL - HD K-I 5.0/962 ; Is a high-density polyethylene, developed for the injection molding with good tenacity and impact properties combined with a good stiffness. Good processability and low warpage.
They are tailored with narrow molecular weight distribution (MWD) result for good impact strength.
Applications
Bins, Boxes for fruits and vegetables, Boxes for fish and General purpose boxes, crates and safety helmets.
Caps and Closures and General purpose boxes.
The KPOL® resin meets the requirements of section 177.1520, paragraph C, from chapter 21 denominated "Olefin Polymers" from the Code of Federal Regulations of the FDA, to be utilized with direct food contact.

General Information			
Additive	Antioxidant Unspecified Stabilizer		
Features	Antioxidant Food Contact Acceptable Good Impact Resistance Good Processability High Density High Stiffness Low Warpage Narrow Molecular Weight Distribution		
Uses	Caps Closures Containers Food Containers Safety Helmets		
Agency Ratings	FDA 21 CFR 177.1520(c)		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.962	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	5.0	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	60		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**

Tensile Strength			ASTM D638
Yield	27.0	MPa	
Break	25.0	MPa	
Flexural Modulus - 1% Secant	1250	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	80	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	130	°C	ASTM D1525 [1]
Melting Temperature	131	°C	DSC
Heat Deflection Temperature	76	°C	ASTM D648
NOTE			
1.	Loading 1 (10 N)		

Recommended distributors for this material

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