KPOL-HDPE HD K-I 8/962

High Density Polyethylene

KPOL Chem Co.

Message:

High Density Polyethylene Homopolymer
Applications
KPOL® HD K-8/962 is designed to suit the manufacture of injection moulded cases, crates, trays, Industrial pails and other similar items requiring toughness and rigidity.
Characteristics
Is a narrow molecular weight distribution homopolymer that exhibits enhanced flow characteristics and good balance of stiffness and impact resistance. Typical applications include cases, tote bins, crates and trays. Contains a UV stabilizer for outdoor applications.

General Information	
Additive	Antioxidant 2 UV Stabilizer
Features	Antioxidant Food Contact Acceptable Good Flow Good Impact Resistance Good Stiffness Good UV Resistance High Density Homopolymer Narrow Molecular Weight Distribution
Uses	Crates Industrial Applications Pails
Agency Ratings	FDA 21 CFR 177.1520
Forms	Pellets
Processing Method	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	0.962	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, F50)	< 5.00	hr	ASTM D1693

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength [1] (Yield)	29.6	MPa	ASTM D638
Tensile Elongation [2] (Break)	> 1000	%	ASTM D638
Flexural Modulus - 1% Secant	1520	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	60.9	kJ/m^2	ASTM D1822
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	128	°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)		

Recommended distributors for this material

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WECHAT