KPOL-HDPE HD K-9.0/956

High Density (EHMW) Polyethylene

KPOL Chem Co.

Message:

High Density Polyethylene Extra high molecular weight, copolymer Extrusion-Blow Molding
Characteristics
The KPOL HD K-9.0/956, is a high molecular weight high-density polyethylene, copolymer. Suitable for large parts blow molded up to 50 lts. Exhibit an good impact resistance and excellent stress cracking resistance (ESCR).
Applications
General large parts blow molded, Industrial Tanks and 50-gallon drums.
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
Features	Antioxidant
	Copolymer
	Food Contact Acceptable
	Good Impact Resistance
	High Density
	High ESCR (Stress Crack Resist.)
	High Molecular Weight
Uses	Blow Molding Applications
	Drums
	Tanks
Agency Ratings	FDA 21 CFR 177.1520(c)
Processing Method	Blow Molding
	Extrusion
	Extrusion Blow Molding

Physical	Nominal Value	Unit	Test Method
Density	0.956	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	9.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance [1]			
50°C, 1.91 mm, 10% Igepal CO-630	500	hr	ASTM D1693B
50°C, 3.18 mm, 100% Igepal CO-630	> 1000	hr	ASTM D1693A
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	62		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**

Tensile Strength (Yield)	32.0	MPa	ASTM D638
Tensile Elongation (Break)	800	%	ASTM D638
Flexural Modulus - Tangent	1.32	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	450	kJ/m^2	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -60.0	°C	ASTM D746
Vicat Softening Temperature	124	°C	ASTM D1525
Melting Temperature	131	°C	DSC
Heat Deflection Temperature	74	°C	ASTM D648
NOTE			
1.	Grooved Specimen		

Recommended distributors for this material

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WECHAT