KPOL-HDPE HD K-7.0/950

High Density (EHMW) Polyethylene

KPOL Chem Co.

Message:

High Density Polyethylene Extra high molecular weight, hexene copolymer Extrusion-Blow Molding
Characteristics
The KPOL HD K-7.0/950; is a high molecular weight high-density polyethylene, copolymer.
Offers good processability, outstanding stress cracking resistance (ESCR), excellent stiffness and impact strength. Suitable for blow molding of large volumes and Sheet extrusion to guard buckets pickup (bedliner).
Applications
Typical blow molded applications include containers and drums from 20 to 200 liters, for chemical, agrochemical and food package, small tanks and bedliner, Pallets, Automotive dunnage, Truck bedliners.
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 Processability
	Hexene Comonomer
	High Density
	High ESCR (Stress Crack Resist.)
	High Impact Resistance
	High Molecular Weight
	High Stiffness
Uses	Automotive Applications
	Drums
	Food Packaging
	Industrial Tanks
	Tanks
Agency Ratings	FDA 21 CFR 177.1520(c)
Processing Method	Blow Molding
	Extrusion
	Sheet Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	7.0	g/10 min	ASTM D1238

Environmental Stress-Cracking Resistance [1]			
50°C, 1.91 mm, 10% Igepal CO-630	200	hr	ASTM D1693B
50°C, 3.18 mm, 100% Igepal CO-630	> 650	hr	ASTM D1693A
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	68		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	32.0	MPa	ASTM D638
Tensile Elongation (Break)	700	%	ASTM D638
Flexural Modulus - Tangent	1.25	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Tensile Impact Strength	195	kJ/m^2	ASTM D1822
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	< -77.0	°C	ASTM D746
Vicat Softening Temperature	125	°C	ASTM D1525
Melting Temperature	132	°C	DSC
Heat Deflection Temperature	74	°C	ASTM D648
NOTE			
1.	Grooved Specimen		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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