KPOL-HDPE HD K-5.5/954

High Density (HMW) Polyethylene

KPOL Chem Co.

Message:

High Density Polyethylene Extra high molecular weight, hexene copolymer Extrusion-Blow Molding
Characteristics
The KPOL HD K5.5/954, is a high molecular weight high-density polyethylene, copolymer. Suitable for large parts blow molded an L-ring drum. Exhibit an good impact resistance and excellent stress cracking resistance (ESCR).
Applications
L-ring drum and general large parts blow molded, Industrial Tanks and 55-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	Drums Industrial Tanks Tanks
Agency Ratings	FDA 21 CFR 177.1520(c)
Processing Method	Blow Molding Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	5.5	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			
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	< -75.0	°C	ASTM D746
Vicat Softening Temperature	127	°C	ASTM D1525
Melting Temperature	140	°C	DSC
Heat Deflection Temperature	74	°C	ASTM D648

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China