# KPOL-HDPE HD K-10.0/948

### High Density (HMW) Polyethylene

KPOL Chem Co.

#### Message:

High Density Polyethylene Extra high molecular weight, hexene copolymer Extrusion-Blow Molding Characteristics

The KPOL HD K-10.0/948, 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.

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 Impact Resistance		
	Good Processability		
	High Density		
	High ESCR (Stress Crack Resist.)		
	High Molecular Weight		
	High Stiffness		
Uses	Agricultural Applications		
	Automotive Applications		
	Containers		
	Drums		
	Food Packaging		
	Packaging		
	Pallets		
Agency Ratings	FDA 21 CFR 177.1520(c)		
Processing Method	Blow Molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method

Physical	Nominal Value	Unit	Test Method
Density	0.948	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/21.6			
kg)	10	g/10 min	ASTM D1238

Environmental Stress-Cracking Resistance			
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)	25.0	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/m²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -77.0	°C	ASTM D746
Vicat Softening Temperature	125	°C	ASTM D1525
Melting Temperature	135	°C	DSC
Heat Deflection Temperature	74	°C	ASTM D648

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