KPOL-HDPE HD K- 0.04/952

High Density (HMW) Polyethylene

KPOL Chem Co.

Message:

High Molecular Weight High Density Polyethylene (HMW-HDPE) for Blow Molding
Applications
Mono and multilayer fuel tanks for automobiles; small volume automotive reservoirs; sheet extrusion for pickup rear protectors.
Characteristics
The KPOL Chem - HD K-04/952 resin is a high density polyethylene produced with bimodal technology developed for the manufacturing of blow molding fuel tanks. It has high molar mass and shows excellent processability. Besides, it shows excellent tenacity, high resistance to stress cracking, and outstanding impact resistance.

General Information	
Additive	Antioxidant
Features	Antioxidant BPA Free Food Contact Acceptable Good Processability High Density High ESCR (Stress Crack Resist.) High Impact Resistance High Molecular Weight
Uses	Automotive Applications Fuel Tanks Tanks
Agency Ratings	FDA 21 CFR 177.1520
Forms	Pellets
Processing Method	Blow Molding Sheet Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.040	g/10 min	
190°C/21.6 kg	8.0	g/10 min	
Environmental Stress-Cracking Resistance [1] (50°C, 2.00 mm, 100% Igepal, Compression Molded, F50)	> 1000	hr	ASTM D1693
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	65		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**

Tensile Strength			ASTM D638
Yield	26.0	MPa	
Break	39.0	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	620	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	62.0	°C	ASTM D648
Vicat Softening Temperature	128	°C	ASTM D1525 [2]
Melting Temperature	128	°C	DSC
NOTE			
1.	0.3 mm notched-plaques		
2.	Loading 1 (10 N)		

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