KPOL-HDPE HD K-04/950

High Density (HMW) Polyethylene

KPOL Chem Co.

Message:

High Molecular Weight High Density Polyethylene (HMW-HDPE) for Film Extrusion

Characteristics

The KPOL Chem - HD K-04/950 resin is a high density polyethylene produced with bimodal technology developed for the extrusion of high molecular weight film.

The film produced from this resin exhibits characteristics of high toughness and excellent impact resistance even in small thickness.

This resin has wide molar mass distribution, giving it easier to process.

Applications

Retail bags; perforated rolls; repackaging; geomembranes; bags in general.

Additive Antioxidant Features Antioxidant Good Impact Resistance Good Toughness Good Toughness High Density High Density High Molecular Weight Distribution Uses Bags Geo Membranes Packaging Processing Method Film Extrusion Physical Nominal Value Unit Projectar (MFR) 0.950 g/cm³ 190°C/2.16 kg 0.040 g/10 min 190°C/2.16 kg Nominal Value Unit Test Method Films Nominal Value Unit Test Method Films 0.040 g/10 min 190°C/2.16 kg 8.6 MD: Yield 40.0 MPa ASTM D882 MD: Yield 30.0 MPa 450	General Information				
Good Impact Resistance Good Processability Good Toughness High Density High Density High Molecular Weight High Molecular Weight Distribution High Molecular Weight Distribution Uses Bags Geo Membranes Packaging Agency Ratings FDA 21 CFR 177.1520 Processing Method FIIm Extrusion Physical Nominal Value Density 9.950 190°C/2.16 kg 0.400 190°C/2.16 kg 0.400 190°C/2.16 kg 0.400 190°C/2.16 kg 0.400 MD: Yield 40.0 MD: Yield 30.0 MD: Yield 30.0 MD: Yield 30.0 MD: Yield 45.0	Additive	Antioxidant			
Good Processability Good Toughness High Density High Molecular Weight Wight Molecular Weight DistributionSecond Toughness High Molecular Weight DistributionUsesBags Geo Membranes Processing MethodFDA 21 CFR 177.1520Processing MethodFDA 21 CFR 177.1520Processing MethodFilm ExtrusionPhysical0.950g/cm³Density0.950g/cm³190°C/216 kg0.040g/10 min190°C/216 kg6.6g/10 minFIImsNominal ValueUnit190°C/216 kg0.040g/10 minTessile StrengthVoninal ValueUnitFilmsNominal ValueASTM D1505MD: Yield40.0MPaTD: Yield30.0MPaMD: Yield30.0MPaMD: Streak45.0MPa	Features	Antioxidant			
Good Toughness High Density High Molecular Weight High Molecular Weight Distribution High Molecular Weight Distribution Bags Geo Membranes Geo Membranes Packaging FDA 21 CFR 177.1520 Processing Method FILM Extrusion Processing Method FILM Extrusion Processing Method FILM Extrusion Porque Japort Quality 0.950 g/cm ² J90°C/2.16 kg 0.040 g/10 min J90°C/2.16 kg 0.040 g/10 min Test Method Intext MIRR) SatTM D1238 MD: Yield 0.040 g/10 min Toniel Strength Cest Method Morea MD: Yield 30.0 MPa MD: Yield 30.0 MPa		Good Impact Resistance			
Hgh Density Hgh Molecular Weight High Molecular Weight Distribution Wide Molecular Weight Distribution Uses Bags Geo Membranes Packaging Packaging Packaging Processing Method FIM Extrusion Physical Nominal Value Unit Persong Method Sinta Value ASTM D1505 Ionord Geo Manial Value Geo Manial Value Ionord Group ASTM D1505 Ionord Group Group Ionord Group ASTM D205 Ionord Group Group ASTM D205 Ionord Group Group ASTM D205 Ionord Group Group ASTM D205<		Good Processability			
High Molecular Weight Wide Molecular Weight DistributionUsesBags Geo Membranes PackagingÁgency RatingsFDA 21 CFR 177.1520Agency RatingsFDA 21 CFR 177.1520PhysicalFDA 21 CFR 177.1520PhysicalNominal ValueUnitTest MethodDensity0.9500.950g/cm³190°C/2.16 kg0.400190°C/2.16 kg0.400190°C/2.16 kg0.400190°C/2.16 kg0.400190°C/2.16 kg0.400190°C/2.16 kg6.60.400g/10 minFImsNominal ValueUnitTest MethodFInsle StrengthVitiMD: Yield40.0MD: Yield30.0MD: Yield30.0MD: Beak45.0		Good Toughness			
Wide Molecular Weight Distribution Uses Bags Geo Membranes Packaging Agency Ratings FDA 21 CFR 177.1520 Processing Method Film Extrusion Physical Nominal Value Unit Density 0.950 g/cm³ 190°C/2.16 kg 0.040 g/10 min 190°C/2.16 kg 0.040 g/10 min Films Nominal Value Unit Test Method 190°C/2.16 kg 0.040 g/10 min STM D1238 Tensile Strength Kominal Value Unit Test Method MD: Yield A0.0 MPa STM D882 MD: Yield 30.0 MPa Lett Mas MD: Yield 50.0 MPa Lett Mas		High Density			
Uses Bags Geo Membranes Packaging Agency Ratings FDA 21 CFR 177.1520 Processing Method FIDA 21 CFR 177.1520 Physical Nominal Value Unit Physical Nominal Value Unit Density 0.950 g/cm³ ASTM D1505 Melt Mass-Flow Rate (MFR)		High Molecular Weight			
Geo Membranes Packaging Packaging Agency Ratings FDA 21 CFR 177.1520 Processing Method Film Extrusion Physical Nominal Value Unit Density 0.950 g/cm³ ASTM D1505 Mett Mass-Flow Rate (MFR)		Wide Molecular Weight Distribution			
Geo Membranes Packaging Packaging Agency Ratings FDA 21 CFR 177.1520 Processing Method Film Extrusion Physical Nominal Value Unit Density 0.950 g/cm³ ASTM D1505 Mett Mass-Flow Rate (MFR)					
Packaging Packaging Agency Ratings FDA 21 CFR 177.1520 Processing Method Film Extrusion Physical Nominal Value Unit Physical Nominal Value Unit Density 0.950 g/cm ³ 190°C/2.16 kg 0.040 g/10 min 190°C/2.16 kg 0.040 g/10 min 190°C/2.16 kg 8.6 g/10 min Films Nominal Value Unit Test Method 190°C/2.16 kg 0.040 g/10 min STM D1238 Intervention Kominal Value Unit Test Method MD: Yield Nominal Value MPa STM D1288 MD: Yield 30.0 MPa STM D128 MD: Yield 30.0 MPa STM D128 MD: Yield 45.0 MPa STM D128	Uses	Bags			
Agency Ratings FDA 21 CFR 177.1520 Processing Method Film Extrusion Physical Nominal Value Unit Test Method Density 0.950 g/cm ³ ASTM D1505 Melt Mass-Flow Rate (MFR)		Geo Membranes			
Processing MethodFilm ExtrusionPhysicalNominal ValueUnitTest MethodDensity0.950g/cm³ASTM D1505Melt Mass-Flow Rate (MFR).ASTM D1238190°C/2.16 kg0.040g/10 min190°C/21.6 kg8.6g/10 minFilmsNominal ValueUnitTest MethodFilmsNominal ValueUnitTest MethodTensile Strength40.0MPaASTM D882MD : Yield30.0MPa.MD : Break45.0MPa.		Packaging			
Processing MethodFilm ExtrusionPhysicalNominal ValueUnitTest MethodDensity0.950g/cm³ASTM D1505Melt Mass-Flow Rate (MFR).ASTM D1238190°C/2.16 kg0.040g/10 min190°C/21.6 kg8.6g/10 minFilmsNominal ValueUnitTest MethodFilmsNominal ValueUnitTest MethodTensile Strength40.0MPaASTM D882MD : Yield30.0MPa.MD : Break45.0MPa.					
PhysicalNominal ValueUnitTest MethodDensity0.950g/cm³ASTM D1505Melt Mass-Flow Rate (MFR).ASTM D1238190°C/2.16 kg0.040g/10 min190°C/2.16 kg8.6g/10 minFilmsNominal ValueUnitFilmsNominal ValueUnitTensile Strength40.0MPaTD : Yield30.0MPaMD : Break45.0MPa	Agency Ratings	FDA 21 CFR 177.1520			
Density0.950g/cm³ASTM D1505Melt Mass-Flow Rate (MFR)ASTM D1238190°C/2.16 kg0.040g/10 min190°C/21.6 kg8.6g/10 minFilmsNominal ValueUnitTest MethodFilmsNominal ValueUnitTest MethodMD: Yield40.0MPaSTM D882TD: Yield30.0MPaLetter StellMD: Break45.0MPaLetter Stell	Processing Method	Film Extrusion			
Melt Mass-Flow Rate (MFR)ASTM D1238190°C/2.16 kg0.040g/10 min190°C/21.6 kg8.6g/10 minFilmsNominal ValueUnitTest MethodFilmsNominal ValueUnitASTM D882MD: Yield40.0MPa	Physical	Nominal Value	Unit	Test Method	
190°C/2.16 kg0.040g/10 min190°C/21.6 kg8.6g/10 minFilmsNominal ValueUnitTest MethodTensile Strength40.0MPaTD: Yield30.0MPaMD: Break45.0MPa	Density	0.950	g/cm³	ASTM D1505	
190°C/21.6 kg8.6g/10 minFilmsNominal ValueUnitTest MethodTensile Strength40.0MPaASTM D882MD : Yield30.0MPaControl of the second	Melt Mass-Flow Rate (MFR)			ASTM D1238	
FilmsNominal ValueUnitTest MethodTensile StrengthASTM D882MD : Yield40.0MPaTD : Yield30.0MPaMD : Break45.0MPa	190°C/2.16 kg	0.040	g/10 min		
Tensile StrengthASTM D882MD : Yield40.0MPaTD : Yield30.0MPaMD : Break45.0MPa	190°C/21.6 kg	8.6	g/10 min		
MD : Yield 40.0 MPa TD : Yield 30.0 MPa MD : Break 45.0 MPa	Films	Nominal Value	Unit	Test Method	
TD: Yield 30.0 MPa MD: Break 45.0 MPa	Tensile Strength			ASTM D882	
MD : Break 45.0 MPa	MD : Yield	40.0	MPa		
	TD : Yield	30.0	MPa		
	MD : Break	45.0	MPa		
TD : Break 55.0 MPa	TD : Break	55.0	MPa		
Tensile Elongation ASTM D882	Tensile Elongation			ASTM D882	
MD : Break 630 %	MD : Break	630	%		

TD : Break	690	%	
Dart Drop Impact ¹	200	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD	6.0	g	
TD	60	g	
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	130	°C	DSC
NOTE			

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

