



PT. LARIS SEJAHTERA TEKNIK

# HDPE

## SPLASHGUARD SYSTEM

# KATALOG HDPE SPLASHGUARD SYSTEM

- ✓ HDPE SYSTEM
- ✓ GLIDER & BAUT SS
- ✓ PETRO TAPE
- ✓ PASTA TAPE



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# HDPE OUTER COVER

## Description and Property:

**HDPE** has excellent environmental stress cracking resistance, excellent impermeability, high barrier property, high puncture resistance, corrosion resistance, excellent elongation and wear resistance.

It has high tensile strength, outstanding low temperature resistance, high temperature resistance (-70°C~110°C), anti-aging, high tearing strength, good bonding property, and the underground service life can reach 30-50 years.

## Specification:

Thickness: 2.0mm

Width: 7m

Length: 100m per roll (customized size available according to customer requirements).

Color: black

## Application:

1. Landfill, sewage or disposal field anti seepage;
2. River course, lake dam, sewage channel, tailing reservoir and liquid storage tank anti seepage;
3. Subway, underground chambers lining;
4. Subgrade and foundation of saline anti seepage;
5. Highway & railway subgrade, expansive soil and collapsible loess waterproof layer;
6. Proof anti seepage.



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# TECHNICAL DATA SHEET

## HDPE SPASHGUARD

High density polyethylene (HDPE) manufactured with the highest quality resin specifically formulated for flexible HDPE. This product is used in applications that require excellent chemical resistance and endurance properties.

### Product Specification

These product specifications meet or exceed GRI GM 13.

TESTED PROPERTY	UNIT	TEST METHOD	FREQUENCY	NOMINAL VALUE									
				HD5020	HD5030	HD5050	HD5075	HD5100	HD5125	HD5150	HD5200	HD5250	HD5300
Thickness Nominal	mm	ASTM D 5199	every roll	0.20	0.30	0.50	0.75	1.00	1.25	1.50	2.00	2.50	3.00
Tolerances 10% mm													
Density, g/cc		ASTM D 1505/D792	90,000 kg	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Tensile Properties		ASTM D 6693, Type IV	9,000 kg										
Yield Strength	kN/m			3	5	7	11	15	18	22	29	37	44
Break Strength	kN/m			5	8	13	20	27	33	40	53	67	80
Yield Elongation	%			12	12	12	12	12	12	12	12	12	12
Break Elongation	%			700	700	700	700	700	700	700	700	700	700
Tear Resistance	N	ASTM D 1004	20,000 kg	25	38	62	93	125	156	187	249	311	374
Puncture Resistance	N	ASTM D 4833	20,000 kg	64	96	160	240	320	400	480	640	800	960
Stress crack Resistance	hr	ASTM D 5397	Per GRI GM 10	500	500	500	500	500	500	500	500	500	500
Carbon Black Content, %	%	ASTM D 4218	9,000 kg	2.0-3.0	2.0-3.0	2.0-3.0	2.0-3.0	2.0-3.0	2.0-3.0	2.0-3.0	2.0-3.0	2.0-3.0	2.0-3.0
Carbon Black Dispersion		ASTM D 5596	20,000 kg	For 10 different views : 9 in Categories 1 or 2 in Categories 3									
Oxidate Induction Time													
Standard OIT	min	ASTM D 3895	90,000 kg	100	100	100	100	100	100	100	100	100	100
High Pressure OIT	min	ASTM D 5885		400	400	400	400	400	400	400	400	400	400
Oven Aging at 85°C retained after 90 days		ASTM D 5721	Per each formulation										
Standard OIT - %	%	ASTM D 3895		55	55	55	55	55	55	55	55	55	55
High Pressure OIT - %	%	ASTM D 5885		80	80	80	80	80	80	80	80	80	80
UV Resistance			Per each formulation										
High Pressure OIT - % Retained	%	ASTM D 5885		50	50	50	50	50	50	50	50	50	50
<b>TYPICAL ROLL DIMENSIONS</b>													
Dimensional Stability	%			±2									
Width	m			7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Length	m			1050	700	420	280	210	168	140	105	84	70
Area	m <sup>2</sup>			7350	4900	2940	1960	1470	1176	980	735	588	490



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# GLIDER HDPE



Polyethylene is a low cost, chemically resistant plastic material that can be used for a wide variety of application. The versatility of polyethylene has made it one of the world's most popular plastics.

With the outstanding characteristics of high wear resistant, high impact strength, self-lubricating, corrosion resistant, shock absorption, low temperature resistant, non toxic, anti stick, low water absorption, which gives it excellent performance, UHMWPE is the best high performance engineering plastics.

Excellent Properties :

- Ø Chemical & Corrosion Resistance
- Ø Superior high impact strength
- Ø Shock and noise absorption
- Ø No moisture absorption
- Ø Very low dynamic friction coefficient
- Ø Extreme wear resistance (200% higher than stainless steel)



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# TECHNICAL DATA SHEET

## Technical Properties:

Item	Test Basis	Reference Range	Unit	Result
Density	ISO 1183-1:2012	0.94-0.96	g/cm <sup>3</sup>	0.945
Tensile Strength	ISO 527-2:2012	≥19	Mpa	23
Compression Strength	ISO 604:2002	≥30	Mpa	38
Elongation at Break	ISO 527-2:2012	≥200	%	324
Hardness Shore-D	ISO 868:2003	≥50	D	62
Dynamic Friction Coefficient	ASTM D1894	≤0.20		0.188
Notched Impact Strength( Charpy)	ISO179-1:2010	≥15	kJ/m <sup>2</sup>	85
Vicat Softing Point	ISO 306:2004	≥80	°C	82



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# TECHNICAL DATA SHEET

## NUT & BOLT 55 316 :

DIMENSION INSPECTIONS CHARACTERISTICK	(MEASURED BY MILLIMETERS) SPECIFICATION	SPECIFICATION ACTUAL RESULT	DIN 934-1987 SIMPLE DETERMINANT							
Across Flat	12.73 <-> 13.00	12.83 <-> 12.89	Qualified							
Head Height	5.15 <-> 5.45	5.33 <-> 5.38	Qualified							
Nominal Length	74.40 <-> 75.60	74.80 <-> 75.18	Qualified							
DIMENSION INSPECTIONS CHARACTERISTICK	(MEASURED BY MILLIMETERS) SPECIFICATION	SPECIFICATION ACTUAL RESULT	DIN 934-1987 SIMPLE DETERMINANT							
Major Diameter	7.76 <-> 7.97	7.80 <-> 7.88	Qualified							
Pitch Diameter	7.04 <-> 7.15	PASSED	Qualified							
MECHANICAL PROPERTIES CHARACTERISTICK	SPECIFICATION	SPECIFICATION ACTUAL RESULT	ISO 3506-1:1997 SIMPLE DETERMINANT							
Core Hardness HRB HRB(S)/HRC	80.00 <-> 100.00	94.34 <-> 97.26	Qualified							
Tensile Strength (N/mm <sup>2</sup> )/ksi	700min	780.14 <-> 783.41	Qualified							
Yield Strength (N/mm <sup>2</sup> )/ksi	450min	664.17 <-> 669.40	Qualified							
CHEMICAL COMPOSITION%										
Heat Number	CX100	SiX100	MnX100	PX1000	SX1000	NiX100	CrX100	MoX100	CuX100	NXPPM
E0980	4	41	105	31	1	1007	1605	202		260

THIS REPORT MUST NOT BE REPRODUCED EXCEPT IN FULL AND TO THE ITEM(S) TESTED ONLY  
THE FASTENERS HAVE BEEN MANUFACTURED ACCORDING TO THE REQUIREMENTS OF THE APPLICABLE STANDARDS AND FOUND CONFORM WITH ITS REQUIREMENTS.

### REPORT OF TESTING

CUSTOMERS ORDER NO. : P-214040008 SIZE : M8 X 16 X 1.6  
DESCRIPTION : DIN125A FLAT WASHER, A4 S.S. PASSIVATED-MARK A4  
LOT SIZE : 204.000 PCS  
SAMPLE SIZE : 8 PCS  
MANUFACTURER : KD14  
COUNTRY OF ORIGIN : CHINA  
DIMENSION OF SPECC : PER DIN125A-2000

(MEASUREMENT BY MILLIMETERS)

INSPECTION ITEMS	STANDARD	RESULT	AC	RE.				
VISUAL APPEARANCE	no cracks, no rust and sharp	OK	8	0				
INSIDE DIAMETER ( A )	8.40 - 8.62	8.54 - 8.56	8	0				
OUTSIDE DIAMETER ( B )	14.57 - 16.00	15.70 - 15.71	8	0				
THICKNESS ( C )	1.40 - 1.80	1.44 - 1.46	8	0				
MARC	A4	A4	8	0				
CHEMICAL ANALYSIS (%) :								
HEAT NO. & DIA (mm)	C	Si	P	S	Mo	Ni	Mn	Cr
LH13091202 25.00 mm	≤0.08	≤1.00	≤0.04	≤0.04	2.0-3.0	10.0-14.0	≤2.00	16.0-18.00
	0.054	0.78	0.024	0.022	2.11	10.07	1.51	16.38

### REMARKS :

- \* THIS REPORT MUST NOT BE REPRODUCED EXCEPT IN FULL AND TEST REPORT RELATES ONLY TO THE ITEM TESTED
- \* THE REPORT IS ISSUED ACCORDING TO EN10203, 3.18
- \* THE QMS IS APPROVED TO ISO 9001 BY BSI. NO. : F5 503874
- \* Tr. TRACE ELEMENT WITH ITS CONTENT CONFORMING TO THE SPECIFICATION.



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# TECHNICAL DATA SHEET

## MATERIAL SAFETY DATA SHEET (MSDS) BC PETRO TAPE DAN BC PETRO PASTE

### MATERIAL SAFETY DATA SHEET

#### [SECTION I] PRODUCTION IDENTIFICATION

MANUFACTURER / SUPPLIER :

BC TAECHANG INDUSTRIAL CORPORATION,

#640-1, Youngju-Dong, Chung-Ku,

Busan, Korea

Information Phone : +82 51 442 6191-2

Information Telefax : +82 51 442 6193

TRADE NAME : BC Petro Tape, Paste and Mastic

DESCRIPTION : Corrosion resistant coating for tanks, machinery and steel pipes

#### [SECTION II] INGREDIENTS

	PERCENT	CAS NUMBER	CHEMICAL NAME
BC PETRO TAPE	60	8009 - 03 - 8	Petrolatum
	10	13776 - 74 - 4	Talc
	30	1317 - 65 - 3	CaCO <sub>3</sub>
BC PETRO PASTE	75	8009 - 03 - 8	Petrolatum
	25	1317 - 65 - 3	CaCO <sub>3</sub>
BC PETRO MASTIC	50	8009 - 03 - 8	Petrolatum
	20	13776 - 74 - 4	Talc
	30	1317 - 65 - 3	CaCO <sub>3</sub>

CLASSIFICATION:

EEC : The product is not classified as a dangerous products

Nature of Hazard (R-Phrases) – None

Safety Advice (S-Phases) – None

TRANSPORT : ADR / RED CLASS – None

UN No. – None

#### [SECTION III] PHYSICAL AND SAFETY DATA

TEMPERATURE SUITABILITY : -170°C ~ 80°C

FLASH POINT approx. 250°C



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# TECHNICAL DATA SHEET

## MATERIAL SAFETY DATA SHEET

### [SECTION IV] HEALTH HAZARD DATA AND PROTECTIVE MEASURES (continued)

#### FIRST AID

- \* INHALATION : Not required
- \* INGESTION : Drink water, do not induce vomiting. Consult a physician if unwell.
- \* EYE : Hold eyelids apart and rinse eyes with running water.  
If irritation persists, consults an eye specialist.
- \* SKIN CONTACT : Wash skin with soap and water and remove contaminated clothing.

PROTECTIVE MEASURES : Use rubber gloves when material is applied

### [SECTION V] FIRE HAZARD DATA AND PROTECTIVE MEASURES

FIRE RISK : The materials are not classified as flammable but they can be burnt.

MEASURE IN CASE OF FIRE : Suitable extinguishing medias are water spray (fog), carbon dioxide, foam or dry powder.

### [SECTION VI] STORAGE, HANDLING & DISPOSAL

STORAGE & HANDLING : The products should be stored in a cool, well ventilated place and handled / used in accordance with good industrial hygiene and in conformity with any legal regulation.

DISPOSAL : Can be burnt in incinerators suitable for liquid waste and in accordance with local authority regulations.

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NOTE : THE DETAILS CONTAINED ARE BASED ON OUR PRESENT STATE OF KNOWLEDGES AND EXPERIENCES AND ARE TO CHARACTERIZE OUR PRODUCT WITH REGARD TO ANY POSSIBLE SAFETY REQUIREMENTS. INFORMATION SHOULD NOT, THEREFORE, BE CONSTRUED AS SPECIFIC PROPERTIES.



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