



1213-CPD

KRITIFLEX BLACK 6070 / 750

HDPE / Smooth surface



PLASTIKA KRITIS SA

P.O. BOX 1093, GR 71110 HERAKLION - CRETE GREECE

TEL: +30 (2810) 308500, FAX: +30 (2810) 381328

09

1213 - CPD - 4479

Annex ZA of EN 13493
and of EN 13361
and of EN 13492
and of EN 13362
and of EN 13491

Polymeric Geosynthetic Barrier for use in the construction of :

- solid waste storage and disposal sites
- reservoirs and dams
- liquid waste disposal sites, transfer stations or secondary containment
- canals
- tunnels and underground structures

Intended use: fluid (gas/liquid) barrier

Characteristics:

Tensile strength (EN ISO 527-1/3/4), (MD & CMD)	32 MPa (-6 MPa)	
Static Puncture (EN ISO 12236)	2,5 kN (-0,25 kN)	
Water tightness (EN 14150)	$<10^{-6}$	$m^3/(m^2d)$
Gas tightness (ASTM D 1434)	$55 * 10^{-9}$	$mol/(m^2s)$

Testing of the weathering resistance on site (water reservoir), resulted that mechanical properties do not change after 13 years exposure.
The product can be exposed up to 13 years.

Testing of the oxidation resistance acc. to EN 14575 resulted that mechanical properties, did not change more than 1% (test report no 82107/08-9 from 1st December 2008)

Testing the resistance against environmental stress cracking acc. EN 14576 showed no failure within 300 hr.

The polymeric geosynthetic barrier is durable in natural soil $4 < pH < 9$
and soil temperature $< 25^{\circ}C$ for a minimum of 25 years service life



1213-CPD

KRITIFLEX BLACK 6070 / 1000

HDPE / Smooth surface



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Polymeric Geosynthetic Barrier for use in the construction of :

- solid waste storage and disposal sites
- reservoirs and dams
- liquid waste disposal sites, transfer stations or secondary containment
- canals
- tunnels and underground structures

Intended use: fluid (gas/liquid) barrier

Characteristics:

Tensile strength (EN ISO 527-1/3/4), (MD & CMD)	32 MPa (-6 MPa)	
Static Puncture (EN ISO 12236)	3 kN (-0,3 kN)	
Water tightness (EN 14150)	$<10^{-6}$	$m^3/(m^2d)$
Gas tightness (ASTM D 1434)	$40 \cdot 10^{-9}$	$mol/(m^2s)$

Testing of the weathering resistance on site (water reservoir), resulted that mechanical properties do not change after 13 years exposure.

The product can be exposed up to 13 years.

Testing of the oxidation resistance acc. to EN 14575 resulted that mechanical properties, did not change more than 1% (test report no 82107/08-9 from 1st December 2008)

Testing the resistance against environmental stress cracking acc. EN 14576 showed no failure within 300 hr.

The polymeric geosynthetic barrier is durable in natural soil $4 < pH < 9$ and soil temperature $< 25^{\circ}C$ for a minimum of 25 years service life



1213-CPD

KRITIFLEX BLACK 6070 / 1500

HDPE / Smooth surface



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1213 - CPD - 4479

Annex ZA of EN 13493

and of EN 13361

and of EN 13492

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and of EN 13491

Polymeric Geosynthetic Barrier for use in the construction of :

- solid waste storage and disposal sites
- reservoirs and dams
- liquid waste disposal sites, transfer stations or secondary containment
- canals
- tunnels and underground structures

Intended use: fluid (gas/liquid) barrier

Characteristics:

Tensile strength (EN ISO 527-1/3/4), (MD & CMD)	32 MPa (-6 MPa)	
Static Puncture (EN ISO 12236)	4,5 kN (-0,45 kN)	
Water tightness (EN 14150)	$<10^{-6}$	$m^3/(m^2d)$
Gas tightness (ASTM D 1434)	$27 * 10^{-9}$	$mol/(m^2s)$

Testing of the weathering resistance on site (water reservoir), resulted that mechanical properties do not change after 13 years exposure.

The product can be exposed up to 13 years.

Testing of the oxidation resistance acc. to EN 14575 resulted that mechanical properties, did not change more than 1% (test report no 82107/08-9 from 1st December 2008)

Testing the resistance against environmental stress cracking acc. EN 14576 showed no failure within 300 hr.

The polymeric geosynthetic barrier is durable in natural soil $4 < pH < 9$ and soil temperature $< 25^{\circ}C$ for a minimum of 25 years service life



KRITIFLEX BLACK 6070 / 2000

HDPE / Smooth surface



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1213 - CPD - 4479

Annex ZA of EN 13493
and of EN 13361
and of EN 13492
and of EN 13362
and of EN 13491

Polymeric Geosynthetic Barrier for use in the construction of :

- solid waste storage and disposal sites
- reservoirs and dams
- liquid waste disposal sites, transfer stations or secondary containment
- canals
- tunnels and underground structures

Intended use: fluid (gas/liquid) barrier

Characteristics:

Tensile strength (EN ISO 527-1/3/4), (MD & CMD)	32 MPa (-6 MPa)	
Static Puncture (EN ISO 12236)	6 kN (-0,6 kN)	
Water tightness (EN 14150)	10^{-6}	m ³ /(m ² d)
Gas tightness (ASTM D 1434)	15 *10 ⁻⁹	mol/(m ² s)

Testing of the weathering resistance on site (water reservoir), resulted that mechanical properties do not change after 13 years exposure.

The product can be exposed up to 13 years.

Testing of the oxidation resistance acc. to EN 14575 resulted that mechanical properties, did not change more than 1% (test report no 82107/08-9 from 1st December 2008)

Testing the resistance against environmental stress cracking acc. EN 14576 showed no failure within 300 hr.

The polymeric geosynthetic barrier is durable in natural soil 4<pH<9 and soil temperature < 25°C for a minimum of 25 years service life



1213-CPD

KRITIFLEX BLACK 6070 / 2500

HDPE / Smooth surface



PLASTIKA KRITIS SA

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09

1213 - CPD - 4479

Annex ZA of EN 13493
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Polymeric Geosynthetic Barrier for use in the construction of :

- solid waste storage and disposal sites
- reservoirs and dams
- liquid waste disposal sites, transfer stations or secondary containment
- canals
- tunnels and underground structures

Intended use: fluid (gas/liquid) barrier

Characteristics:

Tensile strength (EN ISO 527-1/3/4), (MD & CMD)	32 MPa (-6 MPa)	
Static Puncture (EN ISO 12236)	7,2 kN (-0,72 kN)	
Water tightness (EN 14150)	$<10^{-6}$	$m^3/(m^2d)$
Gas tightness (ASTM D 1434)	$11.5 * 10^{-9}$	$mol/(m^2s)$

Testing of the weathering resistance on site (water reservoir), resulted that mechanical properties do not change after 13 years exposure.

The product can be exposed up to 13 years.

Testing of the oxidation resistance acc. to EN 14575 resulted that mechanical properties, did not change more than 1% (test report no 82107/08-9 from 1st December 2008)

Testing the resistance against environmental stress cracking acc. EN 14576 showed no failure within 300 hr.

The polymeric geosynthetic barrier is durable in natural soil $4 < pH < 9$ and soil temperature $< 25^{\circ}C$ for a minimum of 25 years service life



1213-CPD

KRITIFLEX BLACK 6090 / 300

FPP / Smooth surface



PLASTIKA KRITIS SA

P.O. BOX 1093, GR 71110 HERAKLION - CRETE GREECE

TEL: +30 (2810) 308500, FAX: +30 (2810) 381328

09

1213 - CPD - 4480

Annex ZA of EN 13361
and of EN 13362
and of EN 13491

Polymeric Geosynthetic Barrier for use in the construction of :

- reservoirs and dams
- canals
- tunnels and underground structures

Intended use: fluid (gas/liquid) barrier

Characteristics:

Tensile strength (EN ISO 527-1/3/4), (MD)	24 MPa (-4 MPa)	
Tensile strength (EN ISO 527-1/3/4), (CMD)	19 MPa (-4 MPa)	
Static Puncture (EN ISO 12236)	400 N (-40 N)	
Water tightness (EN 14150)	<10 ⁻⁶	m ³ /(m ² d)

Testing of the weathering resistance acc. to EN 12224 resulted under the UV doses of 350 MJ/m² that mechanical properties do not change more than 1,7 % (test report no. 82107/08-7 from 1st December 2008)
The product can be exposed up to 1 years.

Testing of the oxidation resistance acc. to EN 14575 resulted that mechanical properties, did not change more than 5,5% (test report no 82107/08-10 from 1st December 2008)

Testing the resistance against environmental stress cracking acc. EN 14576: npd

The polymeric geosynthetic barrier is durable in natural soil 4<pH<9 and soil temperature < 25°C for a minimum of 25 years service life



1213-CPD

KRITIFLEX BLACK 6090 / 500

FPP / Smooth surface



PLASTIKA KRITIS SA

P.O. BOX 1093, GR 71110 HERAKLION - CRETE GREECE

TEL: +30 (2810) 308500, FAX: +30 (2810) 381328

09

1213 - CPD - 4480

Annex ZA of EN 13361
and of EN 13362
and of EN 13491

Polymeric Geosynthetic Barrier for use in the construction of :

- reservoirs and dams
- canals
- tunnels and underground structures

Intended use: fluid (gas/liquid) barrier

Characteristics:

Tensile strength (EN ISO 527-1/3/4), (MD)	24 MPa (-4 MPa)	
Tensile strength (EN ISO 527-1/3/4), (CMD)	19 MPa (-4 MPa)	
Static Puncture (EN ISO 12236)	650 N (-65 N)	
Water tightness (EN 14150)	<10 ⁻⁶	m ³ /(m ² d)

Testing of the weathering resistance acc. to EN 12224 resulted under the UV doses of 350 MJ/m² that mechanical properties do not change more than 1,7 % (test report no. 82107/08-7 from 1st December 2008)
The product can be exposed up to 1 years.

Testing of the oxidation resistance acc. to EN 14575 resulted that mechanical properties, did not change more than 5,5% (test report no 82107/08-10 from 1st December 2008)

Testing the resistance against environmental stress cracking acc. EN 14576: npd.

The polymeric geosynthetic barrier is durable in natural soil 4<pH<9 and soil temperature < 25°C for a minimum of 25 years service life



1213-CPD

KRITIFLEX BLACK 6090 / 600

FPP / Smooth surface



PLASTIKA KRITIS SA

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1213 - CPD - 4480

Annex ZA of EN 13361
and of EN 13362
and of EN 13491

Polymeric Geosynthetic Barrier for use in the construction of :

- reservoirs and dams
- canals
- tunnels and underground structures

Intended use: fluid (gas/liquid) barrier

Characteristics:

Tensile strength (EN ISO 527-1/3/4), (MD)	24 MPa (-4 MPa)	
Tensile strength (EN ISO 527-1/3/4), (CMD)	19 MPa (-4 MPa)	
Static Puncture (EN ISO 12236)	800 N (-80 N)	
Water tightness (EN 14150)	<10 ⁻⁶	m ³ /(m ² d)

Testing of the weathering resistance acc. to EN 12224 resulted under the UV doses of 350 MJ/m² that mechanical properties do not change more than 1,7 % (test report no. 82107/08-7 from 1st December 2008)
The product can be exposed up to 1 years.

Testing of the oxidation resistance acc. to EN 14575 resulted that mechanical properties, did not change more than 5,5% (test report no 82107/08-10 from 1st December 2008)

Testing the resistance against environmental stress cracking acc. EN 14576: npd

The polymeric geosynthetic barrier is durable in natural soil 4<pH<9 and soil temperature < 25°C for a minimum of 25 years service life



1213-CPD

KRITIFLEX BLACK 6090 / 750

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Polymeric Geosynthetic Barrier for use in the construction of :

- reservoirs and dams
- canals
- tunnels and underground structures

Intended use: fluid (gas/liquid) barrier

Characteristics:

Tensile strength (EN ISO 527-1/3/4), (MD)	24 MPa (-4 MPa)	
Tensile strength (EN ISO 527-1/3/4), (CMD)	19 MPa (-4 MPa)	
Static Puncture (EN ISO 12236)	1000N (-100 N)	
Water tightness (EN 14150)	<10 ⁻⁶	m ³ /(m ² d)

Testing of the weathering resistance acc. to EN 12224 resulted under the UV doses of 350 MJ/m² that mechanical properties do not change more than 1,7 % (test report no. 82107/08-7 from 1st December 2008)
The product can be exposed up to 1 years.

Testing of the oxidation resistance acc. to EN 14575 resulted that mechanical properties, did not change more than 5,5% (test report no 82107/08-10 from 1st December 2008)

Testing the resistance against environmental stress cracking acc. EN 14576: npd

The polymeric geosynthetic barrier is durable in natural soil 4<pH<9 and soil temperature < 25°C for a minimum of 25 years service life



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- tunnels and underground structures

Intended use: fluid (gas/liquid) barrier

Characteristics:

Tensile strength (EN ISO 527-1/3/4), (MD)	24 MPa (-4 MPa)	
Tensile strength (EN ISO 527-1/3/4), (CMD)	19 MPa (-4 MPa)	
Static Puncture (EN ISO 12236)	1350 N (-135 N)	
Water tightness (EN 14150)	<10 ⁻⁶	m ³ /(m ² d)

Testing of the weathering resistance acc. to EN 12224 resulted under the UV doses of 350 MJ/m² that mechanical properties do not change more than 1,7 % (test report no. 82107/08-7 from 1st December 2008)
The product can be exposed up to 1 years.

Testing of the oxidation resistance acc. to EN 14575 resulted that mechanical properties, did not change more than 5,5% (test report no 82107/08-10 from 1st December 2008)

Testing the resistance against environmental stress cracking acc. EN 14576: npd

The polymeric geosynthetic barrier is durable in natural soil 4<pH<9 and soil temperature < 25°C for a minimum of 25 years service life