CEPRO PVC CLEAR STRIPS

Bauaufsichtlich anerkannte Prüf-, Überwachungs- und Zertifizierungsstelle
Amtlich anerkannte Prüfstelle für Feuerlöschmittel und -geräte
DIN EN ISO/IEC 17025 DAP-PL-1137.00
ZLS-P-621/05; ZLS-ZE-510/05
Notified Body no. 0767
Mitglied des Verbandes der Materialprüfungsämter e.V.

MPA Dresden

Prüfungsbericht
Test report

Nr./ *No.* 2007-B-3744

1. Ausfertigung
1. execution

Auftraggeber: *Client:*	Cepro International BV Parallelweg 38 5121 LD Rijen Niederlände
Hersteller: *Manufacturer:*	Cepro International BV Parallelweg 38 5121 LD Rijen Niederlände
Inhalt des Auftrages: *Matter of order:*	Prüfung auf Normalentflammbarkeit (Baustoffklasse B 2) nach DIN 4102 Teil 1 *reaction to fire acc. DIN 4102 part 1 to the proof of the nonnal- combustibility (building material class B2)*
Klassifizierung: *Classification:*	B 2 nach DIN 4102-1 *B2 acc. to DIN 4102-1*
Versuchsmaterial: *Test object:*	weiches Polyvinylchlorid (PVC) Ref.26.20.03 / 26.20.02 *soft polyvinyl chloride (PVC) Ref. 100*
eingeliefert am: *Date of sample receipt:*	05. Oktober 2007 *05th October 2007*
Probenahme: *Sampling procedure:*	nicht amtlich *not official*
Kennzeichnung: *Designation:*	keine *none*

Der Prüfungsbericht umfasst 5 Blatt.
This report comprises 5 pages.

Die Prüfergebnisse beziehen sich ausschließlich auf die Prüfgegenstände.
The test results exclusively refer to the test objects.
Die Prüfung erfolgte gemäß DIN 4102 Teil 1 sowie den Zulassungsgrundsätzen für den Nachweis der Normalentflammbarkeit von Baustoffen (Baustoffklasse B2 nach DIN 4102) in der zur Zeit gültigen Fassung.
The tests took place in accordance with DIN 4102 part 1 as well as the principles of permission for the proof of the normal-combustibility from building materials (building material class B2 according to DIN 4102) in the at present valid version.

Anmerkung: Dieser Bericht ersetzt nicht ein notwendiges allgemeines bauaufsichtliches Prüfzeugnis.
Note: This report does not replace a necessary official approvement "allgemeines bauaufsichtliches Prüfzeugnis".

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BIC WELADED1FGX

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CEPRO PVC CLEAR STRIPS

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

Product description Cepro transparent flexible welding strips

Manufacturer / Supplier

Cepro International BV
P.O. Box 183
5120 AD Rijen
The Netherlands

Date of issue January 2015

Tel. no. for information / emergency +31 (0)161 22 64 72
Fax no. for information / emergency +31 (0)161 22 49 73

Chemical name and synonyms Plasticized Polyvinyl Chloride film

Chemical family PVC resin, plasticizer, stabilizer, pigment

2. HAZARDOUS IDENTIFICATION

Whilst this preparation contains hazardous ingredients harmful effects are unlikely in conditions of normal use. This mixture does not require a label in the form supplied.

Incorrect processing may lead to thermal decomposition which will evolve toxic and corrosive vapours.

This PVC preparation has been classified under EU Directive 1999/45/EC

Classification: *Toxic to reproduction, Category 2; Mutagenic Category 3*
Symbol: *T, Xi*
Risk phrases: *R22, R36, R38, R48/25, R43, R53, R60, R61, R68*
Safety phrases: *S36/37/39, S53, S61*

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Index No	W/W %	Hazard Symbol	Risk Phrase
Di-methylzinn Mercaptid	*Cas No. 57583-35-4 EINECS-No 260-829-0*	*<=2%*	*Xi*	*R20, R21, R22*
C14-C17 Chlorparaffin	*Cas. No. 085535-85-9 EINECS-No 287-477-0*	*< 20%*	*N*	*R50, R53*
Phenol, isopropyliert, Phosphat (3:1)	*Cas. No. 68937-41-7 EINECS-No 219-703-0*	*< 15%*	*Xn, Carc, Cat 3*	*R62, R63*
Triphenyl phosphat	*Cas. No. 115-86-6 EINECS-No 204-112-2*	*< 2%*	*N*	*R50, R53*

4. FIRST AID MEASURES

Inhalation Inhalation of Noxious Fumes:
Remove patient to fresh air, keep warm and at rest. Obtain immediate medical attention. Apply artificial respiration if breathing has ceased or shows signs of failing. Administer oxygen if necessary.

Skin Contact Burns from Contact with Hot Melts:
Cool the affected parts with clean cold water. Do not attempt to remove solidified plastic from the skin. Obtain immediate medical attention.

Eye Contact	Irrigate with eyewash solution or clean water holding the eyelids apart.
Ingestion	Do not induce vomiting. Wash out mouth with water and give 200-300 ml (half a pint) of water. Obtain medical attention if ill effects occur.
Medical Information	Fully inform doctor or hospital of the nature of the product being handled.

5. FIRE FIGHTING MEASURES

Remove uninvolved people from the vicinity of the fire.

Extinguishing Media	Dry powder, water mist, foam, carbon dioxide. Check for special circumstances. e.g. Live electrical equipment that may affect the choice of extinguisher.
Protective Equipment	In major fire situations, toxic and corrosive vapours will be evolved and self contained breathing apparatus and acid resistant protective clothing should be worn.

6. ACCIDENTAL RELEASE MEASURES

Sweep or vacuum up. Store in a suitable closed container for disposal.

7. HANDLING AND STORAGE

Handling	Solid granules can present a slipping hazard if spilled.
Processing	Provide adequate ventilation. Avoid inhalation of vapours from hot molten material.
Storage	Store at room temperature in a dry, adequately ventilated area. Keep packaging closed if possible. Keep away from heat and sources of ignition.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Personal Protection	Observe good industrial hygiene. Wear suitable industrial protective clothing. Appropriate eye protection and gloves should be available whenever PVC preparations are being processed.
Exposure Controls	When processing the material, provide good general ventilation and preferably local extraction near large areas of exposed molten material.

Decomposition Products

Triphenyl phosphat	STEL: UK EH40 1997-01-01	6mg/m³
	TWA: UK EH40 1997-01-01	3mg/m³

OES Hydrogen Chloride - STEL 5ppm; 7mg/m3 (15 mins. TWA).
OES Carbon Monoxide - STEL 300ppm; 330mg/m3 (15 mins. TWA).

OES = Occupational Exposure Standard.
STEL = Short Term Exposure Limit.
TWA = Time Weighted Average.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Granular solid, strips, sheets & films
Relative Density	>1,22
Odour	Slight characteristic.
Decomposition Temperature	Decomposition is dependent on both time and temperature but will occur increasingly rapidly if left standing above 150ºC.
Solubility (Water)	Insoluble. See Product Data Sheet for further information on properties and processing

10. STABILITY AND REACTIVITY

General Information	If stored and handled in accordance with standard practice this product is unlikely to cause any harmful effects.
Hazardous Decomposition Products	Thermal decomposition will evolve corrosive vapours of Hydrogen Chloride and toxic vapours of Carbon Monoxide. Other organic decomposition products and metal oxides will be evolved but will not normally present an additional hazard.
Reactivity	PVC Preparations are relatively inert but contact with strong oxidising agents and concentrated acids above 60ºC should be avoided. Avoid contact with acetal resins.

11. TOXICOLOGICAL INFORMATION

No toxic effects are anticipated under normal conditions of storage and use. See Sections 8 & 10 regarding toxic effects of decomposition products.

12. ECOLOGICAL INFORMATION

PVC preparations in fully gelled form are considered to be ecologically benign. They are not readily decomposed by weathering or by micro organisms.

Water Pollution Class in Germany, (Wassergefährdungsklasse), WGK= 0 (Self classification). Generally not water endangering.

13. DISPOSAL CONSIDERATIONS

If possible recycle otherwise disposal should be in accordance with local, state or national legislation. Bury in an authorised landfill site or incinerate under approved controlled conditions.

Waste is categorised as M1 07 02 13 under EU directive 2000/532/EC

14. TRANSPORT CONSIDERATIONS

Not classified as hazardous for transport.

15. REGULATORY INFORMATION

This PVC preparation does not normally present a danger to human health by inhalation, ingestion or contact with the skin in the form in which it is supplied. Such preparations do not require a label under EU Directive 2008/1272/EC.

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16. OTHER INFORMATION

For reference purposes: the Risk and Safety Phrases for ingredients in point 3 are:

Risk Phrases:

R20	Harmful by inhalation..
R21	Harmful in contact with skin.
R22	Harmful if swallowed.
R50/53	Very Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
R62	Possible risk of impaired fertility.
R63	Possible risks of harm to the unborn child.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.

This Safety Data Sheet was prepared in accordance with EU Directive 2006/1907/EC.

The information contained in this Safety Data Sheet has been prepared in good faith by the Company and represents the Company's actual knowledge of the Product at the date of issue. The purpose of this information is solely to enable the User to take the necessary measures for the protection of health and safety at work. No warranty or guarantee is given or may be implied as to the properties, specifications or quality of the Product, or ist use or application. (The User must satisfy itself as to the suitability or completeness of the information for its own use). It is the User's responsibility to observe national or local laws or regulations as to industrial safety; in no case can the Company accept any responsibility for the User's failure to observe such laws or regulations. Freedom from patent rights must not be assumed.

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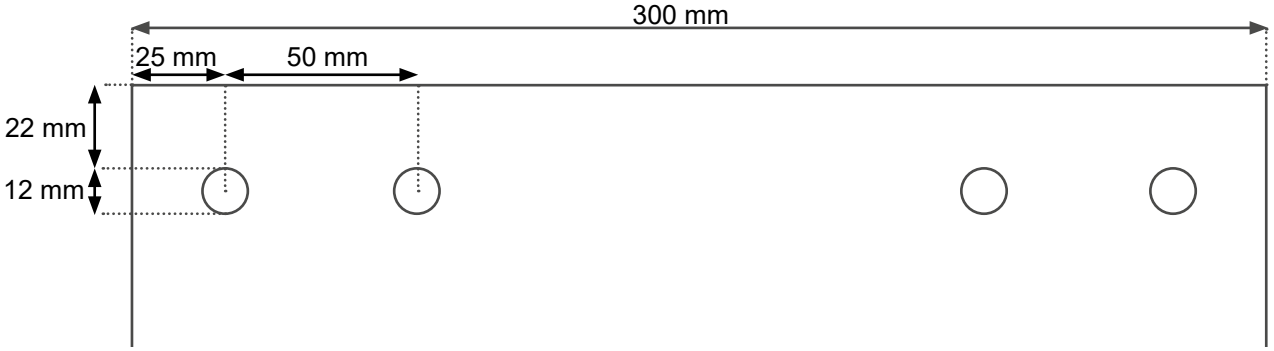
TECHNICAL SPECIFICATIONS

Properties	Unit	Standard	Polar	Test Method
Shore “A” hardness	-	75	65	DIN 53 505
Specific Density	g/cm³	1.22	1.20	DIN 53 479
Temperature resistance	°C	+50 / -20	+35/-40	-
Flexibility	°C	-35	-40	DIN 51 949
Cold bend Brittle point	°C	-35	-45	DIN 53 372
Elongation at break	%	360	400	DIN 53 455
Tensile strength	n/mm²	17	13	DIN 53 455
Water absorption	mg	17	21	DIN 53 472
Light transmittance	%	>80	>75	ASTM D 1003
Sound protection	dB	>35	>35	DIN 52 210
Flammability / reaction to fire		self extinguishing		DIN 53 382
Suitability for food-industry		passed		EC 1935/2004

CEPRO STANDARD HOLE PATTERN FOR STRIPS



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STABILITY LIST

Stability test at 20°C : 1 = stable 2 = conditionally stable 3 = unstable

Contents		1	2	3	Contents		1	2	3	Contents		1	2	3
Acetaldehyde pure				X	**E**thyl alcohol	10%	X			**O**leic acid	100%		X	
Acetaldehyde aqueous			X		Ethyl alcohol	96%		X		Oxalic acid		X		
Acetic acid	10%	X			Ethyl benzene	100%			X					
Acetic anhydride	100%			X	Ethyl hexanol	100%			X	**P**henylhydrazine	100%			X
Acetone	100%			X						Phosphoric acid aqueous		X		
Alum of all kinds		X			**F**erric chloride aqueous		X			Potassium bichromate aq.		X		
Aluminium acetata		X			Formaldehyde	10%	X			Potassium bromide aqueous		X		
Aluminium chloride		X			Formic acid	100%		X		Potassium chloride aqueous		X		
Aluminium hydroxide		X								Potassium hydroxide	up to 50%		X	
Aluminium oxide		X			**G**asoline				X	Potassium nitrate aqueous		X		
Aluminium sulfate		X			Gasoline benzene mixture				X					
Ammonia gaseous	100%	X			Glycerine aqueous		X			**S**ea water		X		
Ammonia aqueous		X			Glycerine pure		X			Sodium chloride aqueous		X		
Ammonium chloride		X			Glycol aqueous		X			Sodium hydroxide	25%		X	
Ammonium phophate aq.		X			Glycol pure		x			Sodium hydroxide	50%		X	
Ammonium sulfite	10-40%	X								Sodium hydroxide aq.	10%	X		
Amyl alcohol	100%			X	**H**ydrochloric acid aq.	10%	X			Stearic acid	100%	X		
Anilin	100%			X	Hydrochloric acid aq.	Conc.		X		Succinic acid	100%	X		
Anise oil	100%			X	Hydrofluosilicic acid	10%	X			Sulfuric acid	5%	X		
					Hydrogen peroxide	3%	X			Sulfuric acid	10%	X		
Barium sulfate		X			Hydrogen peroxide	10%	X			Sulfuric acid	95%			X
Benzaldehyde	100%			X	Hydroxylamine sulfate aq.		X							
Benzoic acid		X			**L**actic acid	10%	X			**T**able salt aqueous		X		
Benzol	100%			X	Lactic acid	50%	X			Tartaric acid aqueous		X		
Bleaching caustic sol.	12,5%	X			Lactic acid	90%			X	Tetrachlorethylene	100%		X	
Borax aqueous		X								Tetrahydrofuran	100%		X	
Boric acid aqueous		X			**M**agnesium carbonate		X							
Bromine				X	Magnesium chloride		X			**U**rea aqueous		X		
Butanol	100%			X	Magnesium sulfate		X							
Butyl acetate	100%			X	Marlon WAS	42%			X	**X**ylene	100%			X
					Marlophen 83	100%			X					
Calcium carbonate aqueous		X			Marlophen 89	5%			X	**Z**inc sulfate		X		
Calcium chloride		X			Marlophen 810	20%			X					
Calcium nitrate		X			Marlophen 820	5%	X							
Calcium sufate aqueous		X			Marlophen 820	20%		X						
Carbon sulfide	100%		X		Methyl alcohol	100%			X					
Carbonic acide dry	100%	X			Methyl chloride	100%			X					
Carbonic acide umid		X												
Chloroform	100%	X			**N**ickel chloride aqueous		X							
Chrome alum		X			Nickel sulfate aqueous		X							
Citric acid		X			Nitric acid	6%	X							
Copper sulfate aqueous		X			Nitric acid	10%	X							
Cyclohexanon	100%			X	Nitric acid	20%		X						
					Nitric acid	65%		X						
Dextrine aqueous		X			Nitrobenzene	100%			X					
Dibutyl phtalat	100%			X										

* ordering special quality - subject to modification -

Information:
Cepro soft polyvinyl chloride is extensively resistant to chemicals, the dielectrical properties are excellent. Our indications are based on our knowledge and on many years of experience in processing of plastics. We can, however, not furnish any general information on the stability of polyvinyl chloride. This is due to the different conditions during application of the material. We would therefore advise you in any case to implement aptitude tests with such filling materials, for which we have no experience of their behaviour.