INFOSHEET

CEPRO IMPACT PLATE 3 MM

Umschreibung
Im Gegensatz zu den flexiblen Produkten wie Vorhängen und Lamellen besteht die Cepro Impact Schutzscheibe aus hartem, schlagfestem Polycarbonat-Material.

CEPRO Impact Schutzscheiben sind lieferbar in 2 Farben:
- CEPRO BRONZE
- CEPRO GREEN.

Anwendung
Das Material kann zum Beispiel als Abschirmung rundum einen Schweissroboter oder als Sichtfenster in einer Schweisskabine verwendet werden.

Diese zwei Farbtypen erfüllen die Anforderungen der Norm ISO EN 25980, gewährleisten eine ausgezeichnete Filterung von schädlichem Schweisslicht und bieten darüber hinaus Schutz gegen lästiges (nicht schädliches) Schweisslicht. Eine gute Sicht auf den Arbeitsplatz erhöht nicht nur die Sicherheit, sondern nimmt dem Schweisser auch das Gefühl der Isolierung.

Technische Anwendungsinformationen
- Minimale Gebrauchstemperatur ca. -30° C.
- Maximale Hitzebeständigkeit ca. 140° C.
- Die Schutzscheibe Impact stellt einen Sichtschutz dar, und obwohl die Schutzscheibe selbstlöschend ist, ist sie nicht primär als Schutz gegen Schweissfunken gedacht.
- Das Material ist nicht als Ersatz für eine Schweisserschutzfilter (nach EN169) geeignet und dient ausschliesslich zum Schutz von Personen, die sich in der Nähe des Schweissplatzes befinden.

Eigenschaften
CEPRO Impact Schutzscheiben sind hergestellt aus Polycarbonat und sind 3 mm dick.

Verfügbare Abmessungen

2050 x 1250 mm, Dicke 3 mm
1025 x 1250 mm, Dicke 3 mm

CEPRO Impact Schutzscheiben sind nach Mass zugeschnitten lieferbar.

CEPRO IMPACT PLATE 3 MM

ECS GmbH - European Certification Service

Certificate of Compliance

Herewith, ECS certifies that the product(s)

CEPRO Impact Bronze
being a transparent welding screen for arc welding processes

supplied by the company

Cepro International B. V.
Parallelweg 38
5121 LD RIJEN
THE NETHERLANDS

comply with the essential requirements for health and safety. The product meets the requirements for optical and physical properties, luminous transmittance, reflectance, ignition and mechanical strength as described in the relevant European and/or international standards as indicated below.

Standard / technical rules	EN ISO 25980 : 2014
Test report(s)	10451-ECS-14 2087-ECS-18 / MR 20871-ECS-18
Material and specifications	Polycarbonate Thickness: 3 mm Luminous transmittance: 7%
Marking	ISO 25980 CEPRO + month + year of manufacturing

The validity of this certificate of compliance (CoC) may be compromised if the manufacturer changes the safety related properties of the product or if the Standard referred to is modified or updated.

As a recognised and authorised testing laboratory / facility, we hereby authorise the use of our name, address and the identification number 1883 of the notified body ECS in marketing and information material produced by the manufacturer.

ECS GmbH
Notified Body 1883
16/04/18

Dr. Bernhard Schmitz
ECS-Certification

European Certification Service
ECS GmbH
Aalen

ECS GmbH – European Certification Service
Augenschutz und Persönliche Schutzausrüstung
Laserschutz und Optische Messtechnik
Hüttfeldstraße 50
73430 Aalen, Germany

INFOSHEET

CEPRO®
LEADING IN WELDING SAFETY

CEPRO IMPACT PLATE 3 MM

ECS
ECS GmbH - European Certification Service

Certificate of Compliance

Herewith, ECS certifies that the product(s)

CEPRO Impact Green
being a transparent welding screen for arc welding processes

supplied by the company

Cepro International B. V.
Parallelweg 38
5121 LD RIJEN
THE NETHERLANDS

comply with the essential requirements for health and safety. The product meets the requirements for optical and physical properties, luminous transmittance, reflectance, ignition and mechanical strength as described in the relevant European and/or international standards as indicated below.

Standard / technical rules	EN ISO 25980 : 2014
Test report(s)	1076-ECS-09 part 1 2087-ECS-18 / MR 20872-ECS-18
Material and specifications	Polycarbonate Thickness: 3 mm Luminous transmittance: 0.04%
Marking	ISO 25980 CEPRO + month + year of manufacturing

The validity of this certificate of compliance (CoC) may be compromised if the manufacturer changes the safety related properties of the product or if the Standard referred to is modified or updated.

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CEPRO
LEADING IN WELDING SAFETY

CEPRO IMPACT PLATE 3 MM

TECHNICAL DATA

Property	Unit	Value	Test Method
Physical			
Density	g/cm^3	1,23	ISO 1183
Water absorption, 50% RH, 23° C	%	0,15	ISO 62
Water absorption, saturation, 23° C	%	0,35	ISO 62
Mechanical			
Yield stress 50 mm/min	*MPa*	>60	ISO 527
Yield strain 50 mm/min	%	6	ISO 527
Nominal strain at break 50 mm/min	%	>100	ISO 527
Tensile modulus 1 mm/min	*MPa*	2300	ISO 527
Flexural strength 2 mm/min	*MPa*	90	ISO 178
Flexural modulus 2 mm/min	*MPa*	2300	ISO 178
Impact			
Charpy impact, notched 23°C, 3.0 mm	kJ/m^2	12	ISO 179/1eA
Izod impact, unnotched 23°C, 3.0 mm	kJ/m^2	NB	ISO 180/1U
Izod impact, notched 23°C, 3.0 mm	kJ/m^2	10	ISO 180/1A
Thermal			
Vicat softening temperature, rate B/120	°C	145	ISO 306
Temperature of deflection under load (type A), 1.8 MPa, flat	°C	127	ISO 75
Thermal conductivity	*W/m°C*	0,2	ISO 8302
Coefficient of linear thermal expansion, 23-55°C	*1/°C*	$7x10^{-5}$	ISO 11359-2
Ball pressure test 125 ±2°C	-	Pass	IEC 60695-10-2
Electrical			
Volume resistivity	*Ohm.cm*	$>10^{15}$	IEC 60093
Dielectric strength, in oil, 3.2 mm	*kV/mm*	18	IEC 60243-1
Optical			
Light transmission, 3 mm	%	89	ASTM-D1003
Fire ratings			
Rail			
Europe	-	Pass R4, Ligthing (2-4mm)	EN 45545
France	-	M2 (2-8mm)	NF P 92-501
France	-	F1 (2mm), F2 (2-8mm)	NF F 16-101
Poland	-	R1 (3 mm)	PN-K-02512
Germany	-	S4/SR2/ST2 (3-6mm)	DIN 5510-2
Italy	-	Class 1A (2 & 4mm)	UNI CEI 11170-3
Electrical			
Vertical burn (50W)	-	V0 (3-6mm)	UL94V
Limited Oxygen Index	%	34	ISO 4589-2
Glow Wire Flammability Index	°C	Pass 960°C (> 1 mm)	IEC-60695-2-12

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CEPRO® LEADING IN WELDING SAFETY

CEPRO IMPACT PLATE 3 MM

TECHNICAL DATA

PROCESSING
CEPRO Impact sheet is ideally suited to thermoforming. It offers high, deep draw ratios, equal wall thickness distribution, and it can be formed into complex shapes using standard thermoforming equipment. Sandwich type heating systems give the best results. CEPRO Impact sheet has a forming temperature range of 180 - 220°C. When forming, a draft angle of at least 3° should be allowed, and post mold shrinkage of 0.5 – 0.9% taken into account.

PRE-DRYING
It is important to ensure that CEPRO Impact sheets are free of moisture prior to thermoforming. A hot air circulating oven set at 120°C is recommended. 2 hours per mm thickness.

ASSEMBLING
Parts made from CEPRO Impact sheet can be assembled with plastics, metals, rubber and other materials using many types of adhesive bonding, welding and mechanical fastening techniques. Since some of these materials can cause environmental stress cracking, please consult CEPRO for advice on specific applications.

PAINTING
For either functional or decorative reasons it may be necessary to apply finish to CEPRO Impact sheets or vacuum formed parts. The product is ideally suited for use with a wide variety of modern decoration techniques. A list of approved paint systems and suppliers is available upon request.

CHEMICAL RESISTANCE
CEPRO Impact sheet has sufficient resistance to most mineral oils, greases, aliphatic hydrocarbons and acids under low or moderate stress levels. In applications where the CEPRO Impact sheet will come into contact with aggressive chemicals, specific (application related) testing is always advised. Effective painting systems can improve chemical resistance.