

Characterization according to REACH Regulation

The product is an article within the meaning of the Regulation (EC) No 1907/2006 (REACH) Article 3.

Hazards Identification

This product is not a hazardous substance or hazardous mixture according to the German Regulation "Gefahrstoffverordnung" or the European Regulation (EC) no. 1272/2008 (CLP Regulation) or the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). No hazards are expected, if the material is used as described in the respective Technical Data Sheet and Processing and Handling Instructions. When used as intended, our products do not release any substances expectedly or intentionally.¹

SVHC / REACH

Based on our supplier's declarations we can confirm that this product does neither contain any substances in a concentration greater than 0.1 weight-% listed in the Candidate List of Substances of Very High Concern (SVHC) published by the European Chemical Agency (ECHA) (<https://echa.europa.eu/candidate-list-table>, last updated on 27/06/2018) nor substances listed in Annex XIV of Regulation (EC) no. 1907/2006.

RoHS

The product does not contain any substances in a concentration above the maximum permitted concentrations defined in Annex 2 of the Directive 2011/65/EU (RoHS 2, last amended on 2018/742/EU).

FCKW

According to the Regulation (EC) no. 1005/2009, the product does not contain the therein listed substances, which deplete the ozone layer.

Packaging Material

Packaging materials used by ORAFOL for packing its products fulfil the requirements of the Regulation 94/62/EC and the German Regulation on prevention and recycling of packaging waste (VerpackV).

Disposal of wastes

In Germany and in the EU, the product can be disposed of as household-type industrial waste (EU waste code number 20 03 01) if there are no other local or regional disposal rules. Otherwise, the disposal regulations of each country must be followed.

Basis of Evaluation

The component-related statements in this document are based on the components and additives, which are used in the formulation of the product. These statements refer to the current condition of the product when leaving the factory site of ORAFOL Europe GmbH in Oranienburg. The information is based on our current knowledge and practical experience and relies further on the respective safety data sheets and declarations provided by the raw material producer or supplier. It cannot be excluded that minor traces are present in the product due to technically unavoidable contaminations of single raw material components. Routine analyses of our products concerning the content of such substances are not carried out. No guarantee and liability can be assumed for factors beyond our knowledge and control. It is the responsibility of the user to assess its product uses and applications and assure compliance to all applicable laws and regulations.

¹ The Technical Data Sheet and the Processing and Handling Instructions for this product can be downloaded from www.orafol.com.

Description

Special PVC film with glossy or matt surface.

Release Paper

Silicone coated paper on one side, 137 g/m², which provides excellent weed-stripping properties. For white vinyl, a light blue silicone paper is used, to form a stronger contrast to lettering.

Adhesive

Solvent polyacrylate, permanent

Area of use

Very well suited for use on cutting plotter systems in the production of short- and medium-term markings, inscriptions and decorations. Outdoor applications. Indoor exposure is almost unlimited. Glossy surface is additionally suitable for thermal transfer printing (with resin ribbons).

Certificates

German General Type Approval (ABG, D5292) acc. to § 22a StVZO (Federal German Road Traffic Licensing Order)

Technical Data

Thickness* (without protective paper and adhesive)	70 micron
Dimensional stability (FINAT TM 14)	Adhered to steel, no measurable shrinkage in cross direction, in length 0,4 mm max.
Temperature resistance***	Adhered to aluminium, -40° C to +80° C, no variation
Sea water resistance (DIN EN ISO 9227)	Adhered to aluminium, after 100h/35° C, no variation
Fire resistance (DIN EN 13501-1)	C-s1,d0 (flame retardant, no/low smoke production, no flaming droplets)
Adhesive power* (FINAT TM 1, after 24h, stainless steel)	18 N/25 mm
Tensile strength (DIN EN ISO 527)	Along: > 19 MPa Across: > 19 MPa
Elongation at break (DIN EN ISO 527)	Along: > 130% Across: > 150%
Shelf life**	2 years
Application temperature	> +8° C
Service life by specialist application Under vertical outdoor exposure (normal climate of Central Europe)	Black / white: 5 years Transparent / coloured: 4 years Brilliant blue: 3 years

* average ** in original packaging, at 20° C and 50% relative humidity

*** normal climate of Central Europe

Note

Surfaces to which the material will be applied must be thoroughly cleaned and free from dust, grease or any other contamination that could affect the adhesion of the material. Freshly lacquered or painted surfaces should be allowed to dry for at least three weeks and to completely cure. The compatibility of selected lacquers and paints should be tested by the user, prior to application of the material. Furthermore, the application information published by ORAFOL must be considered. The batch traceability according to ISO 9001 is possible on the basis of the roll number.

IMPORTANT NOTICE

All ORACAL® products are subject to careful quality control throughout the manufacturing process and are warranted to be of merchantable quality and free from manufacturing defects. Published information concerning ORACAL® products is based upon research which the Company believes to be reliable although such information does not constitute a warranty. Because of the variety of uses of ORACAL® products and the continuing development of new applications, the purchaser should carefully consider the suitability and performance of the product for each intended use, and the purchaser shall assume all risks regarding such use. All specifications are subject to change without prior notice.

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