

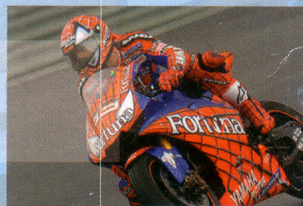
High Performance  
Polymeric Vinyl  
Polymere  
Hochleistungsfolie

# MACal<sup>®</sup> 9800 PRO


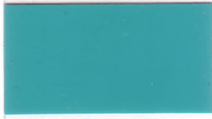



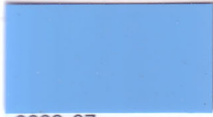
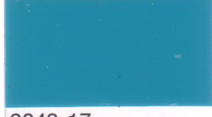
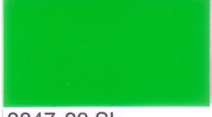
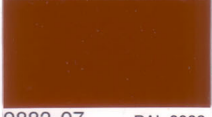
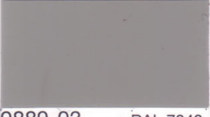
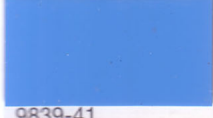
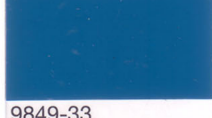

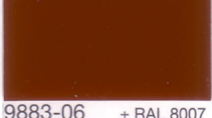
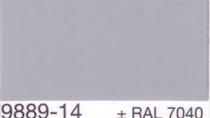
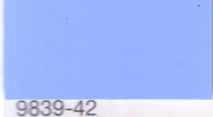
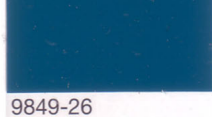

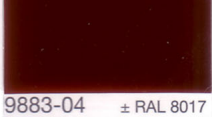
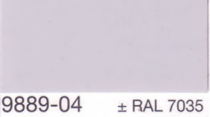
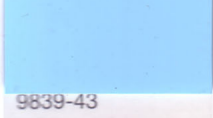
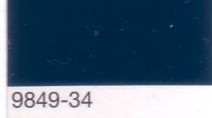
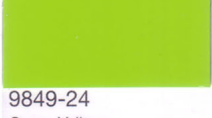


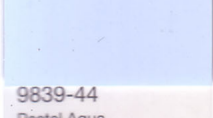
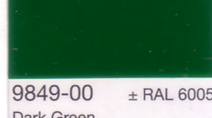
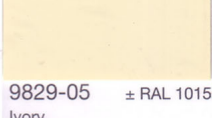
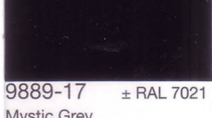
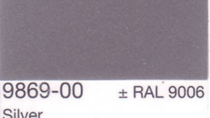

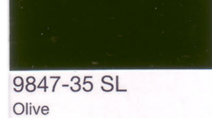
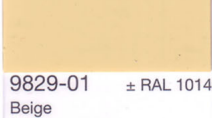
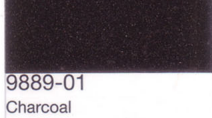
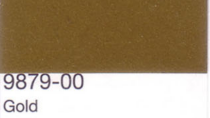
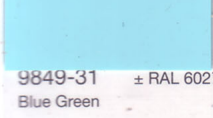
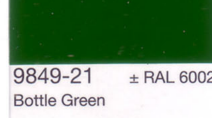
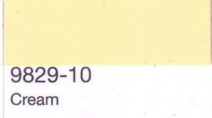
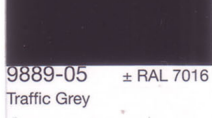
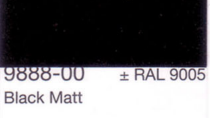
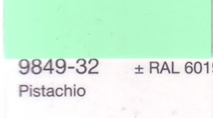
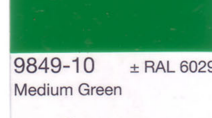

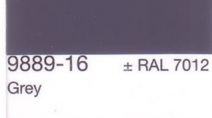
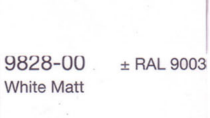
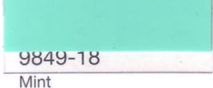
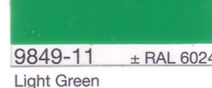

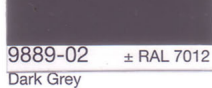
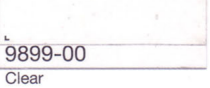
New Performance

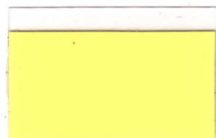
1 2 3 4 5 6 7 8 9 10 »

Years - Jahre



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 9839-10 Sky Blue	 9849-15 Turquoise Green	 9849-36 Bright Green	 9883-10 ± RAL 8015 Chestnut	 9889-15 ± RAL 7000 Mouse Grey
 9839-07 Light Blue	 9849-17 Petrol	 9847-00 SL Luminous Green	 9883-07 ± RAL 8003 Clay Brown	 9889-03 ± RAL 7042 Light Grey
 9839-41 Azure Blue	 9849-33 Turquoise Blue	 9849-12 ± RAL 6018 Grass Green	 9883-06 ± RAL 8007 Fawn Brown	 9889-14 ± RAL 7040 Pastel Grey
 9839-42 Pastel Blue	 9849-26 Dark Petrol	 9849-13 Apple Green	 9883-04 ± RAL 8017 Dark Brown	 9889-04 ± RAL 7035 Pearl Grey
 9839-43 Iceberg	 9849-34 Dark Lagoon	 9849-24 Green Yellow	 9889-00 ± RAL 9005 Black	 9829-00 ± RAL 9003 White
 9839-44 Pastel Aqua	 9849-00 ± RAL 6005 Dark Green	 9829-05 ± RAL 1015 Ivory	 9889-17 ± RAL 7021 Mystic Grey	 9869-00 ± RAL 9006 Silver
 9849-30 Pastel Green	 9847-35 SL Olive	 9829-01 ± RAL 1014 Beige	 9889-01 Charcoal	 9879-00 Gold
 9849-31 ± RAL 6027 Blue Green	 9849-21 ± RAL 6002 Bottle Green	 9829-10 Cream	 9889-05 ± RAL 7016 Traffic Grey	 9888-00 ± RAL 9005 Black Matt
 9849-32 ± RAL 6019 Pistachio	 9849-10 ± RAL 6029 Medium Green	 9883-08 Terra Di Siena	 9889-16 ± RAL 7012 Grey	 9828-00 ± RAL 9003 White Matt
 9849-18 Mint	 9849-11 ± RAL 6024 Light Green	 9887-09 SL Terra Cotta	 9889-02 ± RAL 7012 Dark Grey	 9899-00 Clear



9809-21 ± RAL 1016  
Pastel Yellow



9807-00 SL ± RAL 1026  
Luminous Yellow



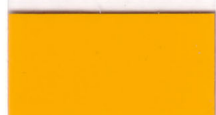
9809-06 ± RAL 1016  
Lemon Yellow



9807-22 SL  
Bright Yellow



9809-09 ± RAL 1021  
Banana Yellow



9809-00 ± RAL 1023  
Dark Yellow



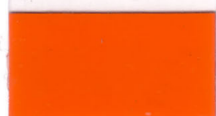
9809-10 ± RAL 1003  
Orange Yellow



9809-11 ± RAL 1028  
Saffron



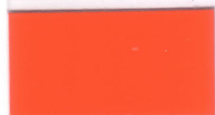
9809-13 ± RAL 2003  
Light Orange



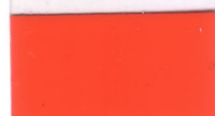
9801-04 ± RAL 2008  
Orange



9807-07 SL  
Luminous Orange



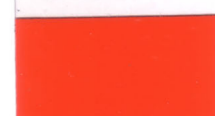
9807-23 SL  
Bright Orange



9859-25  
Warm Red



9859-19  
Red Orange



9859-10  
Poppy Red



9859-26  
Strawberry Red



9857-00 SL  
Luminous Red



9859-11  
Vivid Red



9859-04 ± RAL 3020  
Tomato Red



9859-27 ± RAL 3020  
Spicy Red



9859-16  
Regal Red



9859-00  
Medium Red



9859-12 ± RAL 3001  
Dark Red



9859-13 ± RAL 3003  
Wine Red



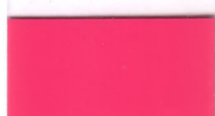
9859-05 ± RAL 3004  
Burgundy



9859-28 ± RAL 3005  
Rioja Red



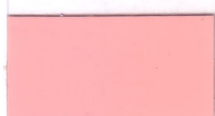
9859-09  
Cyclamen



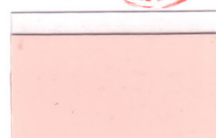
9859-15 ± RAL 4010  
Fuchsia



9859-08  
Panther Rose



9859-30  
Salmon Pink



9859-29  
Skin Tone



9859-32  
Lilac



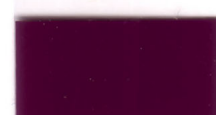
9859-31 ± RAL 4008  
Pink Violet



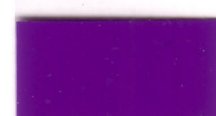
9839-46 ± RAL 4005  
Lavender



9839-45  
Purple



9839-38  
Aubergine



9839-13  
Violet



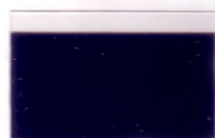
9839-30  
Dark Violet



9839-39 ± RAL 5000  
Antique Blue



9839-19 ± RAL 5011  
Dark Blue



9839-40  
Steel Blue



9839-23  
Scandinavia Blue



9839-12 ± RAL 5002  
Ultramarine Blue



9837-01 SL  
Luminous Blue



9839-26  
Reflex Blue



9839-11 ± RAL 5005  
Vivid Blue



9839-22  
Sea Blue



9839-24  
Medium Blue



9837-00 SL  
Luminous Cyan



9839-20 ± RAL 5012  
Egyptian Blue

**Description**

High performance polymeric stabilised soft vinyl coated with a durable permanent adhesive giving excellent dimensional stability. MACal 9800 Pro is designed for trouble-free computer cutting and fast weeding, even for small letters and fine lines.

**Adhesive**

High quality clear solvent based permanent acrylic adhesive. A white version of this adhesive is used for MACal 9800 Pro SL.

**Liner**

Highly stable 135gsm white kraft paper with blue backprinting. For white vinyls the liner is coated with a grey silicone coating to improve the contrast with the film colour.

**Typical uses**

MACal 9800 Pro is designed for long term interior and exterior marking applications (vehicle marking, window graphics, signs...). MACal 9800 Pro SL are very intense and luminous colours for attractive markings. MACal 9800 Pro provide ideal conformability over simple contours.

**Produktbeschreibung**

Polymer-stabilisierte Hochleistungsfolie aus Weich-PVC, beschichtet mit einem dauerhaft haltbaren, permanenten Kleber mit ausgezeichneter Dimensionsstabilität. MACal 9800 Pro läßt sich problemlos schneiden und sehr schnell entgittern, selbst bei kleinen Buchstaben und feinen Linien.

**Kleber**

Hochqualitativer, transparenter und permanenter Acryk Kleber auf Lösemittelbasis. Eine weiß eingefärbte Version dieses Klebers wird bei MACal 9800 Pro SL verwendet.

**Abdeckpapier**

Sehr stabiles, weißes Kraftpapier, 135g/m<sup>2</sup>, mit blauem Rückseitendruck. Das Abdeckpapier der weißen Folien ist mit grauem Silikon beschichtet, um den Kontrast zur Folie zu erhöhen.

**Anwendung**

MACal 9800 Pro eignet sich für langlebige Beschriftungen im Innen- und Außeneinsatz (z.B. auf Fahrzeugen, Fenstern und Schildern). MACal 9800 Pro SL sind besonders intensiv leuchtende Farben für auffällige Beschriftungen. MACal 9800 Pro bietet eine hervorragende Anpassungsfähigkeit an einfache Konturen.

Technical data (*)	Average values	Technische Daten (*)	Durchschnittswerte
Thickness (film only)	66 microns	Stärke der Folie	66 µm
Durability (vertical weathering in central European climate).	8 years : black and white 7 years : colours 5 years : metallics	Haltbarkeit (vertikal verklebt, unter mittel-europäischen Klimabedingungen)	8 Jahre : schwarz und weiß 7 Jahre : Farben 5 Jahre : Metallic-Farben
Adhesion (FTM 1) 20 min. on stainless steel 1 week on stainless steel	16 N/25mm 20 N/25mm	Klebkraft (FTM 1) 20 Minuten auf rostfreiem Stahl 1 Woche auf rostfreiem Stahl	16 N/25mm 20 N/25mm
Dimensional stability (FTM 14) 48 H at 70 °C on aluminium	< 0.1 %	Dimensionsstabilität (FTM 14) 48 Stunden bei 70 °C auf Aluminium	< 0,1 %
Minimum application temperature End-use temperature	+ 8 °C From - 40 °C to + 90 °C	Mindest-Verklebetemperatur Gebrauchstemperatur	+ 8 °C von - 40 °C bis + 90 °C
Tensile strength (DIN 53455-5) Elongation at break (DIN 53455-5)	> 27 N/15mm > 150 %	Zugfestigkeit (DIN 53455-5) Dehnbarkeit (DIN 53455-5)	> 27 N/15mm > 150 %
Shelf life (20 °C - 50% relative humidity)	2 years	Lagerfähigkeit (20 °C - 50% relative Luftfeuchtigkeit)	2 Jahre
Resistance to solvents and chemicals (applied on stainless steel 72 hours before immersion)	Resistant to most oils, greases, fuel, aliphatic solvents, weak acids, salts and alkalis.	Beständigkeit gegen Lösemittel und Chemikalien (vor dem Eintauchen 72 Stunden auf rostfreiem Stahl verklebt)	Resistent gegen die meisten Öle, Schmierstoffe, Treibstoffe, aliphatischen Lösemittel, leichten Säuren, Salze und Alkalien.
Flammability (ISO 3795)	Self-extinguishing, applied on aluminium	Brennbarkeit (ISO 3795)	Selbstverlöschend, auf Aluminium verklebt.

**Important remarks**

All surfaces to which the material will be applied must be thoroughly cleaned from dust, grease or any contamination. The compatibility of paints and lacquers should be tested by the end-user, prior to use.

(\*) Published information concerning MACtac products are based upon research which the Company believes to be reliable but such information does not constitute a warranty.

Because of the variety of possible uses for MACtac products and the continuing development of new uses, the purchaser should carefully consider the fitness and performance of the product for each intended use and the purchaser assumes all risks in connection with such use. Seller shall not be liable for damages in excess of the purchase price of the product or for incidental or consequential damages. All specifications subject to change without prior notice.

**Wichtiger Hinweis**

Alle Substrate, auf die diese Folie verklebt werden soll, müssen gründlich von Schmutz, Fetten und anderen Verunreinigungen befreit werden. Vor dem Einsatz muß die Eignung von Anstrichen oder Lacken geprüft werden.

(\*) Die veröffentlichten Informationen über MACtac Produkte beruhen auf Untersuchungen, die die Gesellschaft für zuverlässig erachtet, stellen aber keine Garantie dar.

Angesichts der vielfältigen Verwendungsfähigkeit der Produkte und der laufenden Entwicklung neuer Einsatzmöglichkeiten, empfiehlt es sich für den Käufer, vor jedem Gebrauch Eignung und Beschaffenheit sorgfältig zu prüfen, er trägt das alleinige Risiko für diesen Einsatz. Der Verkäufer haftet für Schäden nur bis zur Höhe des Kaufpreises unter Ausschluss aller mittelbaren und zufälligen Schäden. Die technischen Eigenschaften unterliegen der Weiterentwicklung und können bei Bedarf ohne Information geändert werden.



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