



GTD high-performance concentrated liquid dyes for plastic material

INSTRUCTIONS FOR USE

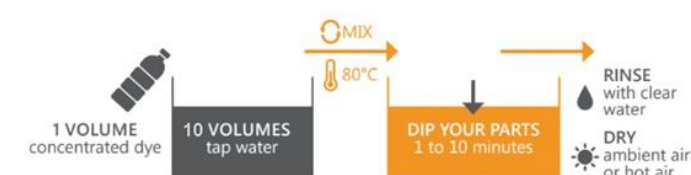
Build up a dyeing bath by diluting the **GTD high-performance liquid dyes** with water. Heat it up.

1 volume **GTD** + **10** parts **water** at a temperature from of **80°C to 95°C**.

Shake vigorously before use. Dip the items in the dyeing bath for 1 to 10 minutes according to the required intensity. Move gentle pieces during the coloration.

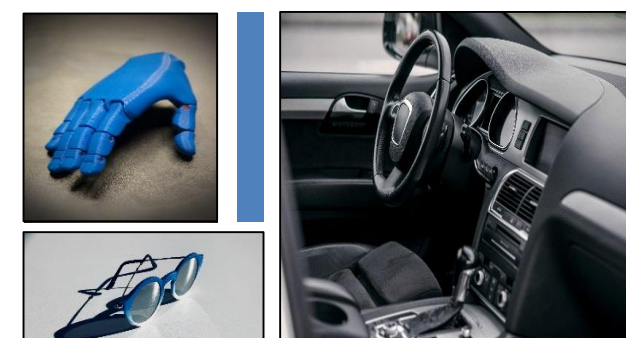
Rinse with water.

THE TECHNICAL PROCESS



GTD high-performance liquid dyes are suitable for the coloration of plastic items or laser sintering pieces which require good all-round fastness properties.

They meet a wide spectrum of requirements and find their use in demanding fields of application such as automobile, aeronautics, eyewear, prosthesis,...



Material

Polyamide PA11, PA12, filled polyamide, acrylic,...

Advantages

To the already known advantages of the **GTC universal liquid dyes** (technical bulletin n° 20 CO 12), **GTD high-performance liquid dyes** provide outstanding levels of fastness to rubbing, washing, bleaching, perspiration and light.

Packaging

Plastic jerrycan of 1 - 5 - 10 liters.

Storage

1 year in tightly closed packaging under usual storage conditions.

RELATED PRODUCTS

Post-coloration cleaner

A final ultrasonic cleaning for few minutes in a solution containing 20 to 50ml/l **8460GTD detergent** prevents any possible discharge of dyes.

Discolorant

4080 discolorant used pure or diluted, at warm temperature allows to remove a non-compliant color.

Color stabilization



8630LC anti-UV (technical bulletin n°20 CO 39) is an additive, used in the dyeing bath, which enhances the light fastness to plastic parts.

Whitener

Yellowing items can recover their original whiteness by dipping in a warm bath containing 5 to 10 ml/l of **8430PA whitener**.



GTD high-performance concentrated liquid dyes

Shades

A range of 20 standard colors is available and all miscible with each other to achieve an infinity of colors.

RELATED POLISHING PRODUCTS

Medias

The high abrasive power of **CPA15 cones** (technical bulletin n° 19 PO 40) is particularly effective on parts from 3D printing items from powder sintering. They generate a thin and smooth surface.

Brightening paste

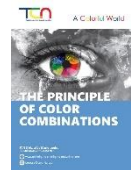
BS3208 brightening paste (technical bulletin n° 18 PO 23) allows to obtain a polished-mirror surface on previously smoothed items. It also provides a waterproof and antisoiling treatment to the treated parts.

SERVICES



Formulation and realization of shades on demand

Color matching of GTD liquid dyes from a Pantone® or RAL® reference.



« The principle of color combinations »

Our booklet recalls the essential chromatic properties to obtaining particular colors. It's a mini-guide that explains how to build your dyeing baths.



Spectrocolorimetric analysis

To guarantee ever more performance to our customers and partners, TCN is equipped with a **spectrocolorimetric device** to ensure:

The L*a*b color measurement of a tinted piece, in reflection and transmission, under different illuminants.

Reproducibility and conformity of each batch of dyes.
Precise color matching of specific shades.



UV aging test

Our xenon lamp equipment allows to simulate aging tests and know the UV resistance of our dyes.

Our customers can ensure the behavior of their colorful pieces and the change in properties of their materials by solar radiation in a short time.

MJF COMPATIBLE 8471 Yellow	8472 Orange	MJF COMPATIBLE 8901 Brick	MJF COMPATIBLE 8473 Scarlet	MJF COMPATIBLE 8474 Red
MJF COMPATIBLE 8475 Burgundy	MJF COMPATIBLE 8476 Plum	MJF COMPATIBLE 8889* Blue	MJF COMPATIBLE 8477 Blue	MJF COMPATIBLE 8486 Royal blue
MJF COMPATIBLE 8478 Navy	8479 Green	MJF COMPATIBLE 8904 Green	8916 Ivory	MJF COMPATIBLE 8482 Brown
MJF COMPATIBLE 8483 Chocolate	8489 Light Grey	MJF COMPATIBLE 8484 Grey	MJF COMPATIBLE 8480 Khaki	MJF COMPATIBLE 8485 8910* Black

* **FOOD CONTACT : 8889 blue & 8910 black**, used as specified, comply with Regulation (EU) No 10/2011 on plastic materials and articles intended to come into contact with food. See Certificat GTD – 0920 .

illustrative colors
pure colors are listed in bold