

# GTC universal liquid dyes for plastic material

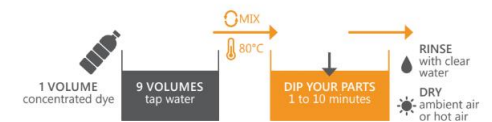
## INSTRUCTIONS FOR USE

Build up a dyeing bath by diluting the **GTC liquid dyes** with water. Heat it up.

**1** volume **GTC liquid dyes** + **5 to 10** volumes of **water** at a temperature around **60 – 95°C**.

Stir vigorously before use. Dip the items in the dyeing bath for 1 to 10 minutes according to the required intensity. Gently stir the items during the coloration. **Rinse with water**.

### THE TECHNICAL PROCESS



### RELATED PRODUCTS

#### Dyeing equipment

Our **ELD25 easy lab dyeing equipment**, dedicated to color by dipping, ensures an optimum process for an homogeneous and repetitive final result.

#### Cleaner

**7520B cleaner** is suitable for an efficient cleaning of tanks and utensils.


#### Discolorant

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

#### Whitener

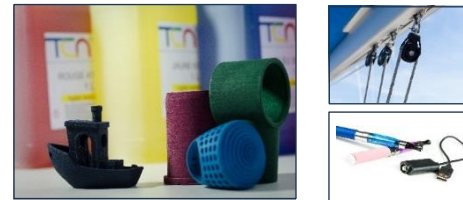
Yellowing items can recover their original whiteness by dipping in a warm bath containing 5 to 50 ml/l of **8430PA whitener**.

#### 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. 

**GTC universal liquid dyes** are suitable for the coloration of a wide variety of plastic parts: technical objects, fashion items, promotional products, single or pre-series pieces.

They are designed to bring color to finished and previously polished parts.



#### Material

##### Most of plastics:

polyamide, polyurethane, elastomer, acrylic, polyester, TPU, PEEK, ABS, PEI,...

##### From most of technologies :

SLS, SLA, FDM, MJF, injection, molding,...

Dyeing parameters (temperature, dilution, time) depends on material.

#### Advantages

Easy and quick process for one individual or several pieces in one operation.

Coloration of small-sized items, whatever their shape and geometry.

No defects as no excess thickness and dust.

A wide range of achievable colors.

Completion assured directly at the post-manufacturing of the item.

#### Packaging

Plastic jerrycan of 1 - 5 -10 - 100 liters.

#### Storage

1 year in tightly closed packaging under usual storage conditions.

# GTC liquid dyes

## Shades

A range of 28 standard colors is available and all miscible with each other to achieve an infinity of colors. **GTC concentrated liquid dyes** can be delivered according to a reference chosen by the customer.

### 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 which will allow a uniform coloring.

#### 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



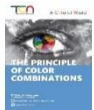
#### Color chart

Color charts made on white PA12 and MJF pieces give a precise idea of the realistic standard color display.



#### Formulation and realization of shades on demand

Color matching of GTC 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.



#### Caps for jerrycan

Pouring caps and tap caps for jerrycan of 1 - 5 - 10 liters.  
They bring more functionality and guarantee to pour with precision and cleanliness.

### Yellow and Orange



Fluo yellow

-  
937



Lemon yellow

-  
834



Golden yellow

-  
8043



Ivory

-  
8322



Blond

-  
5766



Brown

-  
838



Orange

-  
7199

### Pink and Chocolate



Pink

-  
888



Ruby

-  
836



Cyclamen

-  
6734



Violet

-  
1066



Plum

-  
7776



Scarlet

-  
849



Red

-  
4157



Burgundy

-  
3697



Brown

-  
8352



Chocolate

-  
8323

### Cyan and Navy



Cyan

-  
7302



Turquoise

-  
6654



Blue

-  
3672



Royal blue

-  
3674



Navy

-  
837

### Fluo anise and Black



Fluo anise

-  
7382



Green

-  
8361



Khaki

-  
8362



Light grey

-  
8547



Neutral grey

-  
8644



Black

-  
8211C

illustrative colors  
pure colors are listed in bold