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Technical data sheet

Product description: thermochromic pigment
Product code: TO-FI30

Application scopes: pigment can be mixed with plastics (PS, PE, PP, S-PVC, ABS and other), resins, lacquers, printing inks, paints (solvent and water based), rubber and other materials.

Typical physical properties:

Appearance: violet < 30°C < translucent powder (colour starts to fade at 25°C)
Density (g/cm³): 0,2
Temperature resistance (°C): 180-200 (up to 10 minutes)
UV resistance: no
pH: 7-8
Average particle size: 6,5µm

Dosage:

Plastics, resins: ~1-2%
Printing inks, paints: ~8-12%

Safety:

Thermochromic pigment is hardly inflammable and non toxic. However contact with pure pigment may cause skin, eyes and airways irritation. Use protection gloves, dust mask and protective glasses. Avoid generating dust during work with pigment.

Storage:

Shelf life: 3 years

Colour change times (without noticeable change): 5000

Keep unused pigment in sealed container; in dark and cold place. Avoid exposition to UV and direct sunlight. Thermochromic pigment can change colour certain amount of times so during storage keep temperature under colour changing level - 25°C. On the other hand freezing the pigment may damage it so keep temperature at least at 4°C level.

Document has been made basing on supplier certificate.