























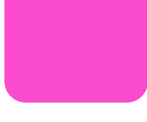



SERIE

# POLICROM



# POLICROM SERIE

Fastness

	0,5%	1,0%	2,0%	Light *	PVC **
<b>Policrom X Yellow 1306</b>				5-6	5
<b>Policrom X Orange 1306</b>				5-6	4
<b>Policrom X Red 1306</b>				5-6	4
<b>Policrom X Blue 1306</b>				2	4
<b>Policrom X Black 1306</b>				3	2-3
<b>Policrom Brill Yellow 140617</b>				3	4
<b>Policrom Brill Pink 140617</b>				3-4	5
<b>Policrom Brill Blue TP 140909</b>				2-3	2

\*Light fastness (ISO 105-B02)

\*\*Bleeding Fastness on PVC (IUF 442)

## **Policrom Serie**

Policrom products are suitable for coloring polyurethane foams of polyester, polyethers and bicarboxylics, both casting and injection molded, cell-enclosed and open-cell foam, with aqueous and solvent-based expanding systems.

### **Technical features**

1. Policrom dyes do not interact with the foam structure, thus guaranteeing uniform coloration and absence of air bubbles and imperfections in the polyurethane foam.
2. Policrom dyes allow the production of vibrant tones not achievable with pigment based products.
3. Policrom dyes can be used both in a polyester and polyether system, with the benefit of reducing the amount of colours in stock.
4. Policrom dyes can also be used in the presence of polymers with a push reaction (very short polymerization times), where the pigment based preparations have difficulty in following the different phases of the reaction.
5. Policrom dyes act in the polyurethane foam both in the mesophase and in the pre-expansion and final expansion phase as a double shell system where the hydrophobic part and the hydrophilic part of the polyurethane foam are coloured as a self-emulsifying system.

### **Properties**

- Chemical affinity with different types of materials
- Dimensional foam stability
- Uniform color distribution throughout the foam section
- Excellent light stability

### **Benefits**

#### **Higher tinting power**

Due to the higher tinting power, the use of the Policrom allows the introduction in the system of lesser amounts of plasticizers if compared to the use of pigment pastes, thus reducing the phenomenon of migration to the surface.

#### **Getting brilliant colors**

The use of the Policrom guarantees brilliant and luminous tones that are impossible to achieve with pigment pastes due to their opacity.

#### **Compatibility with various Policrom and with pigment pastes**

Policrom are perfectly compatible and mixable with each other, in order to create the desired color. They can also be used in conjunction with pigment pastes to obtain more intense tones combined with high light fastness.

#### **Conservation of the polymer mechanical properties**

Policrom keep all mechanical properties of the polymer unaltered. In contrast, pigment pastes, being partially formed by inerts, create breakpoints in the polymeric chain, weakening the structure and reducing elastic properties.

#### **Reduction of defects on the final polyurethane**

The complete solubility of Policrom in the plasticizer, allows to uniformly introduce the chromophore molecule into the polyurethane foam, thus eliminating halos and stains that make the staining inhomogeneous.

#### **Keeping constant the production process**

Using Policrom products, the "cream time" can be kept constant: in fact, the amount of plasticizer percentage is much lower than the quantities introduced with the pigment pastes. This way, the polyol / isocyanate ratio can be maintained constant in the production process

All information are based on the current state of our knowledge and on the results of our tests, but they are given without guarantee. The Buyer remains responsible for verifying that the products are suitable for his intended process or purpose. Cromatos srl is not liable for any damage due to following these suggestions. Nothing herein contained can be considered as a recommendation for use in violation of patents or applicable laws or regulations. Tests before the industrial use of the product are recommended.



**COLORANTI, PIGMENTI E PRODOTTI CHIMICI PER L'INDUSTRIA  
INDUSTRIAL DYES, PIGMENTS AND CHEMICAL PRODUCTS**

**Cromatos s.r.l.**

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