

CIRCULUM®

X-Colour

DESCRIPTION

In our extruder we are able to add pigments to our X-grades to produce colored EPS.

APPLICATIONS

We are producing different colours on request.
Our current program consist of Bleu-Orange-Grey and Black.

Grade names are X- -colour xyyz
x= strength of the colour
yy= indication of average beadsize mm
z=K for Regular or NF for flame retardant

Current grades (developed for downstream)

X- Black 510 NF
X- Bleu 209 K
X- Orange 414 NF
X- Grey 209 K

PROCESSING

The processing conditions of **X-Colour** is comparable with white EPS.

Density is an important parameter for Colour.
Usually we make Colour samples at different densities to agree upon colour variation with the costumer.

Flame retardant grades depending on fire resistancy demands.

Possible test which can be passed based on the recipy

- ISO3975
- UL94HF
- Euroclas E (NEN-ISO 11925)
- B1/B2 (DIN4102)

TECHNICAL INFORMATION

TYPICAL PHYSICAL PROPERTIES

Raw material	Value	Unit	Test method
Pentane content	5 *	%	Gas chromatography
Monomer level	< 0.1	%	Gas chromatography
Average beadsize	0.8 – 1.8 **	mm	Image analyser

*Depending on the application
** 90% between : x12 1.0-1.4 mm/ x11 0.9-1.4 mm /x10 0.8-1.2 mm /x09 0.7-1.1 mm

End product

	<u>15 kg/m³</u>	<u>20 kg/m³</u>	<u>30 kg/m³</u>	<u>40 kg/m³</u>
Compressive stress (10 %), (kPa), EN 826	80	120	200	280
Bending strength, (kPa), EN 12089	175	240	380	560
Heat conductivity (λ_{10}), (W/mK), EN 12667	0.037	0.034	0.032	0.032

STORAGE

X-Colour should be stored at below 20 °C. Protect from direct sunlight and other weather conditions (rain, wind, frost etc.). Keep away from any source of ignition. The storage time should not exceed three months. After opening of the packaging, it should be used as soon as possible.

SAFETY

In transport **X-Colour** is classified according to European regulations for product transport: Substance number UN2211, Class 9.

In processing avoid generating dust. All equipment should be properly earthen. Releases pentane during processing which might form a flammable/explosive vapour-air mixture. Use proper ventilation and keep away from any source of ignition. A Safety Data Sheet is available on request.

RECYCLING

X-Colour is suitable for recycling using modern methods of grinding, cleaning and regranulation.

In-house production waste should be kept clean to facilitate direct recycling.

Please contact your BEWI RAW BV representative for more details on various aspects of safety, recovery and disposal of the product.