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Technical Data Sheet

Chromat is polyester based decorative chips used in a variety of applications including the casting of solid surface products. The chips are made from NPG Isophthalic resin, a blend of Aluminium Trihydrate and pigments free from heavy metals. The mixture is then fully cured at temperatures above 160°C to provide a highly resilient and stable product.

These carefully chosen ingredients and the techniques in which they are processed, make Chromat a suitable decorative filler for the production of kitchen worktops, wash basins and other surfaces where superior properties are required. Chromat is optimised for lower viscosity, better particle suspension, mould flow and air release.

Chromat has been tested with the following materials with no lasting effect:-

Group 1

The following chemicals can be left in contact with Chromat for prolonged periods (tested for a minimum of 16 hours) with no effect other than a possible slight surface mark which can be removed with detergent solution and scouring pad.

Acetic Acid	Acetone
Alcohol	Hydrochloric acid (<10%)
Benzene	Lactic acid
Bleach	Sulphuric acid (< 10%)
Ethyl acetate	Formic acid (< 10%)
Formaldehyde	Paraffin
Petrol	Ammonia (35%)
Phosphoric acid (< 10%)	Zinc sulphate
Uric acid	Citric acid
White spirit	Xylene

Group 2

Prolonged contact with the following chemicals may produce a moderate to heavy stain which can, however, be removed with a scouring pad and abrasive cleaner, or with wet and dry sandpaper.

Formic acid (> 10%)	Phenol
Glacial acetic acid	Phosphoric acid (> 10%)
Hydrochloric acid (10%)	Silver nitrate
Hydrofluoric acid	Sulphuric acid (> 10%)
Iodine	Sodium acid (> 10%)
Mercurochrome	

Foodstuffs Legislation

Under the assumption of appropriate processing there are no objections against the use of Chromat for commodity goods in contact with food as defined by the German Health Authorities in the "Lebensmittel-und-Bedarfsgegeständegesetz" Section 5, part 1. Suitability for a specific application should in any case be confirmed by the manufacturer prior to use.



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Characteristics of Chromat

Stain resistant
Fire resistant
UV Stabilised
Suitable for food contact applications

Applications of Chromat:-

Cast polymer products
Compression moulded products (BMC, DMC)
Epoxy flooring

Property	Value/Unit	Test Method
Specific Gravity of Unfilled Resin	1.06g/ml	DIN53217
Specific Gravity of Chromat chips	1.8g/cc	DIN53217
Bulk density	1.05g/ml	DIN53217
Tensile Strength	50MPa	DIN5345
Impact Strength	25kj/m	DIN53453
Thermal Coefficient of Linear Expansion	$9 \cdot 10^{-5}/K$	DIN53752
Heat Distortion Temperature	190°C	DIN EN ISO 75
Hardness	72-77 Barcol	ASTM D2583
Elongation at Maximum Stress	4.4%	DIN53455
Elongation at Break	5.6%	DIN53455
Water Absorption at 23°C		DIN53495
After 24 Hours	0.02%	
After 4 days	0.07%	

The information submitted in this data sheet is based on our current knowledge and experience. Due to the many factors that may affect processing and application, this data does not relieve producers from the responsibility of carrying out their own tests and experiments, neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply this product to ensure that proprietary rights and existing laws and legislation are observed.

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