

Urochem Moulding Compound 171

Compression Grade

Urochem
Dry Granulated
Compression Grade 171

Urea- formaldehyde resins fortified with highly refined cellulose as filler, and further modified with minor amounts of special purpose additives, pigments, cure regulators and lubricants.

The Urochem 171 Moulding Compounds can be supplied in an almost unlimited range of colours from translucent light pastels to black.

Moulded parts are free from odour; UV stable with good moisture resistance.

Hard, glossy and scratch resistant surface.

Excellent chemical resistance. Fats, oils and common organic solvents like alcohol and acetone do not attack moulded parts which are also resistant to surfactants and weak bases. They will withstand attack from weak acids for a shorter duration.

Excellent electrical properties (arc quenching, tracking, flame resistance). Oxygen index of 30% is achieved without the use of external flame retardants. No halogens are present in the composition.

Compliant with the requirements of widely used material specifications for amino compounds:

BS 1322 type UF A10 (*)

DIN 7708 type 131.5 (*)

ISO 2112 type UF A10 (*)

UL certified

(*) included in ISO 14527



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|------------------------------|--|
| Fields of application | <p>The Urochem 171 Dry Granulated Urea Moulding Compound covers all normal applications for urea.</p> <p>Wide array of applications include Electrical accessories, sanitary products, caps and closures.</p> <p>The broad range of products requires custom tailored compounding with rheological properties adjusted to meet the needs of the specific application and process.</p> <p>A good melt flow is key characteristic of these dry granulated products.</p> |
| Recycling | <p>Products made from our Urochem 171 Dry Granulated grades can be recycled. Either the product is ground into a fine powder which is then mixed with virgin injection material just before injection moulding or the products ground into a size suitable for plastic blast media.</p> |
| Environment | <p>Most components of our urea formaldehyde compounds are derived from renewable natural resources. On decomposition, products made from urea-formaldehyde compounds end up as natural harmless chemicals like water, nitrogen and carbon dioxide.</p> <p>Urochem 171 grades are in full compliance to RoHS. Moreover, as potentially carcinogenic flame-retardants are not required, the risk to health is reduced. Therefore the Urochem 171 thermoset compound is the right choice for customers who are working with environmental management systems and sustainable development.</p> |
| Packaging and storage | <p>Available in bags, octabins, gaylords or big-bags.</p> <p>Store product in cool and dry indoor space.</p> <p>Storage below 20°C will provide a shelf life of least 12 months.</p> |



| Property | Unit | Value | Test Method |
|---------------------------|-------------------|-----------|--------------|
| Shrinkage | % | 0.6 – 0.9 | ISO 2577 |
| Post_Shrinkage | % | 0.8 – 1.1 | ISO 2577 |
| Density | g/cm ³ | 1.50 | ISO 1183 |
| Water absorption | mg | < 300 | ISO 62 |
| Flexural strength | MPa | ≥ 80 | ISO 178 |
| Tensile strength | MPa | ≥ 45 | ISO 527 |
| Impact strength | KJ/m ² | ≥ 5 | ISO 179/1 eU |
| Notched impact strenght | KJ/m ² | ≥ 1.1 | ISO 179/1 eA |
| HDT 8.0 MPa | °C | ≥ 90 | ISO 75 |
| Glow bar 960 °C 180 sec. | Class | ≤ B H2-10 | IEC 707 |
| Flammability UL 94 | Class | V-0 | UL 94 |
| Oxygen Index | % | > 30 | ASTM D2863 |
| Surface resistance | logΩ | ≥ 10 | IEC 93 |
| Volume resistivity | Log Ω cm | ≥ 11 | IEC 93 |
| Dissipation factor, 1 kHz | Delta tan | ≤ 0.1 | IEC 250 |
| Dielectric constant | | 5 | DIN 53483 |
| Proof_Tracking Index | V | ≥ 600 | IEC 112 |

The information given in our datasheet, which to our knowledge is correct, does not constitute any kind of warranty or other undertaking of responsibility from Chemiplastica, but serves only as general information with respect to possible applicability of the products as well as the characteristics and handling of the products.

CHEMIPLASTICA

**Chemiplastica SpA**

Via Dante,60
22070 Carbonate Como_ ITALY _
Phone: ++39/0331/83651
Fax: ++39/0331/836565

Chemiplastica S.A. DE C.V.

Carretera panamericana Km 219.7
Tramo Celaya-Salamanca Villagran
Gto., MEXICO
Phone: +52 411 155 -3131
Fax: +52 411 155-3198

Chemiplastica AB

28 480 Perstorp_ SWEDEN
Phone: +46 0435 370 00
Fax: +46 0435 388 03

Chemiplastica Inc.

238 Nonotuck Street
Florence, MA 01062 USA
Phone: +1 413 584 2472
Fax: + 1 413 586 4089