

# Urochem Moulding Compound 191

## Compression Grade\_ Powder

Urochem  
Powder  
Compression Grade 191

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 136 Moulding Compounds can be supplied in an almost unlimited range of colors from translucent light pastels to black.

Molded parts are free from odor; 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 molded 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 A** (\*)

**DIN 7708 type 131.5** (\*)

**ISO 2112 type UF A** (\*)

**UL certified**

(\*) **included in ISO 14527**

Fields of application

The Urochem 191 Urea Moulding Compound in fine powder which confer to the manufactured articles a particularly homogeneous and glossy surface.

The broad range of products requires custom compounding for the particular application and process; rheological properties are also adjusted to the needs of the specific application.

The translucent colors are especially suitable for the production of buttons. A good melt flow is key characteristic of these dry powder products.



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Recycling	Products made from our Urochem 191 Dry Granulated grades can be recycled. Either the product is ground into a coarse powder which is then mixed with virgin injection material just before injection molding or the products ground not a size suitable for plastic blast media.
Environment	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. Moreover, as potentially carcinogenic flame-retardants are not required, the risk to health is reduced. Therefore the Urochem 191 thermoset compound is the right choice for customers who are working with environmental management systems and sustainable development.
Packaging and storage	Available in bags, octabins, Gaylords or big-bags. Store product in Cool and dry indoor space. Storage Below 20°C will provide a shelf life of minimum 6 months.



Property	Unit	Value	Test Method
Shrinkage	%	0.6 – 0.8	ISO 2577
Post_Shrinkage	%	1.0 – 1.3	ISO 2577
Density (prs)	g/cm <sup>3</sup>	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 <sup>2</sup>	≥ 5	ISO 179/1 eU
Notched impact strenght	KJ/m <sup>2</sup>	≥ 1.1	ISO 179/1 eA
HDT 8.0 MPa	°C	≥ 90	ISO 175
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 m	≥ 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

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