

Urochem Moulding Compound 161

Compression Grade

**Urochem
Dry Granulated
Compression Grade 161**

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 161 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

Fields of application

The Urochem 161 Urea Moulding Compound has low shrinkage, low water absorption and high strength.

It is particularly suitable for circuit breakers and electrical accessories.



Recycling	Products made from our Urochem 161 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.
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. Urochem 161 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 161 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 least 12 months.



Property	Unit	Value	Test Method
Shrinkage	%	0.6 – 0.8	ISO 2577
Post_Shrinkage	%	0.7 – 1.0	ISO 2577
Density	g/cm ³	1.50	ISO 1183
Water absorption	mg	< 200	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.	Rating	passes	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.

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