Urochem 161

Urea Formaldehyde

Chemiplastica, Inc.

Message:

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.

General Information			
UL YellowCard	E177332-226448	E57557-246236	E57661-246243
	E70218-249108		
Filler / Reinforcement	Cellulose		
Additive	Lubricant		
	Unspecified Additive		

Features	Alcohol Resistant
	Base Resistant
	Good Chemical Resistance
	Good Electrical Properties
	Halogen Free
	High Gloss
	High Hardness
	High Strength
	Low Shrinkage
	Low to No Odor
	Low to No Water Absorption
	Lubricated
	Moisture Resistant
	Oil Resistant
	Recyclable Material
	Renewable Resource Content

	Scratch Resistant
	Solvent Resistant

Uses	Electrical Parts
RoHS Compliance	RoHS Compliant
Appearance	Colors Available
Forms	Granules
Processing Method	Compression Molding

Physical	Nominal Value	Unit	Test Method
Density	1.50	g/cm³	ISO 1183
Molding Shrinkage			ISO 2577
-- [1]	0.70 to 1.0	%	
--	0.60 to 0.80	%	
Water Absorption	< 200.0	mg	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	> 45.0	MPa	ISO 527-2
Flexural Stress	> 80.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	> 1.1	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength	> 5.0	kJ/m²	ISO 179/1eU

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (8.0 MPa, Unannealed)	> 90.0	°C	ISO 75-2/C

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+11	ohms	IEC 60093
Volume Resistivity	> 1.1E+11	ohms·cm	IEC 60093
Dielectric Constant	5.00		DIN 53483
Dissipation Factor (1 kHz)	< 0.10		IEC 60250
Comparative Tracking Index	> 600	V	IEC 60112

Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Glow Wire Flammability Index [2]	960	°C	IEC 707
Oxygen Index	> 30	%	ASTM D2863

NOTE	
1.	Post-shrink
2.	180 sec

Recommended distributors for this material

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