Urochem 162

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 162 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 specificationsfor 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 162 Urea Moulding Compound has low shrinkage, low water absorption and high strength.
It is suitable for electrical accessories (typically faceplates).

General Information		
UL YellowCard	E177332-226448	E70218-249108
Filler / Reinforcement	Cellulose	
Additive	Lubricant	
	Unspecified Additive	
Features	Alcohol Resistant	
	Base Resistant	
	Good Chemical Resistance	
	Good Electrical Properties	
	Good UV Resistance	
	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		
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	< 300.0	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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