Urochem 134

Urea Formaldehyde

Chemiplastica, Inc.

Message:

Urea- formaldehyde resins with melamine resin fortified with highly refined cellulose as filler, and further modified with minor amounts of special purpose additives, pigments, cure regulators and lubricants.
The Urochem 134 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: Optimized for use primarily in the thermoset injection moulding process.
Particularly well suited for electrical components such as sockets, lamp holders, and domestic circuit breakers.

General Information		
UL YellowCard	E177332-226448	E70218-249108
Filler / Reinforcement	Fiber filler	
Additive	Lubricant	
	Unspecified additive	
Features	Moisture resistance	
	Highlight	
	Solvent resistance	
	Good UV resistance	
	Updatable resources	
	Recyclable materials	
	Good electrical performance	
	Scratch resistance	
	Good chemical resistance	
	alkali resistance	
	Alcohol resistance	
	Oil resistance	
	The smell is low to none	
	Lubrication	
	Halogen-free	
	High hardness	

Uses	Electrical components		
RoHS Compliance	RoHS compliance		
Appearance	Available colors		
Forms	Particles		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.50	g/cm³	ISO 1183
Molding Shrinkage			ISO 2577
-- [1]	0.80 - 1.1	%	ISO 2577
--	0.80 - 1.0	%	ISO 2577
Water Absorption		mg	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield)	> 55.0	MPa	ISO 527-2
Flexural Stress	> 100	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	> 1.6	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength	> 8.0	kJ/m²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
1.8 MPa, not annealed	> 130	°C	ISO 75-2/A
8.0 MPa, not annealed	> 90.0	°C	ISO 75-2/C
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.1E+11	ohms	IEC 60093
Volume Resistivity	> 1.1E+11	ohms·cm	IEC 60093
Dielectric Constant	5.00		DIN 53483
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
Injection	**Nominal Value**	**Unit**	
Nozzle Temperature	95.0 - 115	°C	
Mold Temperature	145 - 160	°C	
Injection Pressure	70.0 - 150	MPa	
Holding Pressure	30.0 - 80.0	MPa	
Back Pressure	10.0 - 14.0	MPa	

Injection instructions

Barrel inlet temp: 70 to 85°CHydraulic injection pressure: 50 to 170 barHydraulic backpressure: 7 to 11 barInjection speed: 100 to 200 cm³/s

NOTE

1.	Post-shrink
2.	180 sec

Recommended distributors for this material

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