Urochem 136

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 136 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	E177332-226449	E57557-273167	E70218-249109
Filler / Reinforcement	Fiber filler		
Additive	Lubricant		
	Unspecified additive		
Features	Moisture resistance		
	Highlight		
	Solvent 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		

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	> 150	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	> 1.6	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength	> 12	kJ/m ²	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
Electrical Surface Resistivity	Nominal Value 1.1E+11	Unit ohms	Test Method IEC 60093
Electrical Surface Resistivity Volume Resistivity	Nominal Value 1.1E+11 1.1E+11	Unit ohms ohms·cm	Test Method IEC 60093 IEC 60093
Electrical Surface Resistivity Volume Resistivity Dielectric Constant	Nominal Value 1.1E+11 1.1E+11 5.00	Unit ohms ohms·cm	Test Method IEC 60093 IEC 60093 DIN 53483
Electrical Surface Resistivity Volume Resistivity Dielectric Constant Comparative Tracking Index	Nominal Value 1.1E+11 1.1E+11 5.00 > 600	Unit ohms ohms·cm V	Test Method IEC 60093 IEC 60093 DIN 53483 IEC 60112
Electrical Surface Resistivity Volume Resistivity Dielectric Constant Comparative Tracking Index Flammability	Nominal Value 1.1E+11 1.1E+11 5.00 > 600 Nominal Value	Unit ohms ohms·cm V Unit	Test Method IEC 60093 IEC 60093 DIN 53483 IEC 60112 Test Method
ElectricalSurface ResistivityVolume ResistivityDielectric ConstantComparative Tracking IndexFlammabilityFlame Rating	Nominal Value 1.1E+11 1.1E+11 5.00 > 600 Nominal Value V-0	Unit ohms ohms·cm V Unit	Test Method IEC 60093 IEC 60093 DIN 53483 IEC 60112 Test Method UL 94
Electrical Surface Resistivity Volume Resistivity Dielectric Constant Comparative Tracking Index Flammability Flame Rating Glow Wire Flammability Index ²	Nominal Value 1.1E+11 1.1E+11 5.00 > 600 Nominal Value V-0 960	Unit ohms ohms·cm V Unit °C	Test Method IEC 60093 IEC 60093 DIN 53483 IEC 60112 Test Method UL 94 IEC 707
ElectricalSurface ResistivityVolume ResistivityDielectric ConstantComparative Tracking IndexFlammabilityFlame RatingGlow Wire Flammability Index 2Oxygen Index	Nominal Value 1.1E+11 1.1E+11 5.00 > 600 Nominal Value V-0 960 > 30	Unit ohms ohms·cm V V Unit C %	Test Method IEC 60093 IEC 60093 DIN 53483 IEC 60112 Test Method UL 94 IEC 707 ASTM D2863
ElectricalSurface ResistivityVolume ResistivityDielectric ConstantComparative Tracking IndexFlammabilityFlame RatingGlow Wire Flammability Index 2Oxygen IndexInjection	Nominal Value 1.1E+11 1.1E+11 5.00 > 600 Nominal Value V-0 960 > 30 Nominal Value	Unit ohms ohms·cm V V Unit °C % Unit	Test Method IEC 60093 IEC 60093 DIN 53483 IEC 60112 Test Method UL 94 IEC 707 ASTM D2863
ElectricalSurface ResistivityVolume ResistivityDielectric ConstantComparative Tracking IndexFlammabilityFlame RatingGlow Wire Flammability Index 2Oxygen IndexInjectionNozzle Temperature	Nominal Value 1.1E+11 1.1E+11 5.00 > 600 Nominal Value V-0 960 > 30 Nominal Value 95.0 - 115	Unit ohms ohms·cm V V Unit °C % Unit	Test Method IEC 60093 IEC 60093 DIN 53483 IEC 60112 Test Method UL 94 IEC 707 ASTM D2863
ElectricalSurface ResistivityVolume ResistivityDielectric ConstantComparative Tracking IndexFlammabilityFlame RatingGlow Wire Flammability Index 2Oxygen IndexInjectionNozzle TemperatureMold Temperature	Nominal Value 1.1E+11 1.1E+11 5.00 > 600 Nominal Value V-0 960 > 30 Nominal Value 95.0 - 115 145 - 160	Unit ohms ohms·cm V Unit Unit °C % Unit Unit °C	Test Method IEC 60093 IEC 60093 DIN 53483 IEC 60112 Test Method UL 94 IEC 707 ASTM D2863
ElectricalSurface ResistivityVolume ResistivityDielectric ConstantComparative Tracking IndexFlammabilityFlame RatingGlow Wire Flammability Index 2Oxygen IndexInjectionNozzle TemperatureMold TemperatureInjection Pressure	Nominal Value 1.1E+11 1.1E+11 5.00 > 600 Nominal Value V-0 960 > 30 Nominal Value 95.0 - 115 145 - 160 70.0 - 150	Unit ohms ohms·cm V V Unit C °C °C °C °C °C MPa	Test Method IEC 60093 IEC 60093 DIN 53483 IEC 60112 Test Method UL 94 IEC 707 ASTM D2863
ElectricalSurface ResistivityVolume ResistivityDielectric ConstantComparative Tracking IndexFlammabilityFlame RatingGlow Wire Flammability Index 2Oxygen IndexInjectionNozzle TemperatureMold TemperatureInjection PressureHolding Pressure	Nominal Value 1.1E+11 1.1E+11 5.00 > 600 Nominal Value V-0 960 > 30 Nominal Value 95.0 - 115 145 - 160 70.0 - 150 30.0 - 80.0	Unit ohms ohms·cm V V Unit °C °C °C °C MPa MPa	Test Method IEC 60093 IEC 60093 DIN 53483 IEC 60112 Test Method UL 94 IEC 707 ASTM D2863
ElectricalSurface ResistivityVolume ResistivityDielectric ConstantComparative Tracking IndexFlammabilityFlame RatingGlow Wire Flammability Index 2Oxygen IndexInjectionNozzle TemperatureMold TemperatureInjection PressureHolding PressureBack Pressure	Nominal Value 1.1E+11 5.00 > 600 Nominal Value V-0 960 > 30 Nominal Value 95.0 - 115 145 - 160 70.0 - 150 30.0 - 80.0 10.0 - 14.0	Unit ohms ohms·cm V Unit Unit O Unit O C S C C C C MPa MPa MPa	Test Method IEC 60093 IEC 60093 DIN 53483 IEC 60112 Test Method UL 94 IEC 707 ASTM D2863
ElectricalSurface ResistivityVolume ResistivityDielectric ConstantComparative Tracking IndexFlammabilityFlame RatingGlow Wire Flammability Index 2Oxygen IndexInjectionNozzle TemperatureMold TemperatureInjection PressureHolding PressureBack PressureInjection instructions	Nominal Value 1.1E+11 1.1E+11 5.00 > 600 Nominal Value V-0 960 > 30 Nominal Value 95.0 - 115 145 - 160 70.0 - 150 30.0 - 80.0 10.0 - 14.0	Unit ohms ohms·cm V Unit Unit °C % Unit °C °C °C MPa MPa MPa	Test Method IEC 60093 IEC 60093 DIN 53483 IEC 60112 Test Method UL 94 IEC 707 ASTM D2863
ElectricalSurface ResistivityVolume ResistivityDielectric ConstantComparative Tracking IndexFlammabilityFlame RatingGlow Wire Flammability Index 2Oxygen IndexInjectionNozzle TemperatureMold TemperatureInjection PressureHolding PressureBack PressureInjection instructionsHydraulic injection pressure: 50 to 170 barH	Nominal Value 1.1E+11 1.1E+11 5.00 > 600 Nominal Value V-0 960 > 30 Nominal Value 95.0 - 115 145 - 160 70.0 - 150 30.0 - 80.0 10.0 - 14.0	Unit ohms ohms · cm V Unit Unit °C % Unit °C °C °C MPa MPa MPa MPa tion speed: 100 to 200 cm³/sBarrel inle	Test Method IEC 60093 IEC 60093 DIN 53483 IEC 60112 Test Method UL 94 IEC 707 ASTM D2863
ElectricalSurface ResistivityVolume ResistivityDielectric ConstantComparative Tracking IndexFlammabilityFlame RatingGlow Wire Flammability Index 2Oxygen IndexInjectionNozzle TemperatureMold TemperatureInjection PressureHolding PressureBack PressureInjection instructionsHydraulic injection pressure: 50 to 170 barHNOTE	Nominal Value 1.1E+11 5.00 > 600 Nominal Value V-0 960 > 30 Nominal Value 95.0 - 115 145 - 160 70.0 - 150 30.0 - 80.0 10.0 - 14.0	Unit ohms ohms·cm V Unit °C °C °C °C °C MPa MPa MPa MPa tion speed: 100 to 200 cm ³ /sBarrel inle	Test Method IEC 60093 IEC 60093 DIN 53483 IEC 60112 Test Method UL 94 IEC 707 ASTM D2863 ASTM D2863 IEC 707 ASTM D2863
ElectricalSurface ResistivityVolume ResistivityDielectric ConstantComparative Tracking IndexFlammabilityFlame RatingGlow Wire Flammability Index 2Oxygen IndexInjectionNozzle TemperatureMold TemperatureInjection PressureHolding PressureBack PressureInjection instructionsHydraulic injection pressure: 50 to 170 barHNOTE1.	Nominal Value 1.1E+11 5.00 > 600 Nominal Value V-0 960 > 30 Nominal Value 95.0 - 115 145 - 160 70.0 - 150 30.0 - 80.0 10.0 - 14.0	Unit ohms ohms · cm V Unit °C % Unit °C % Unit °C °C % MPa MPa MPa MPa MPa	Test Method IEC 60093 IEC 60093 DIN 53483 IEC 60112 Test Method UL 94 IEC 707 ASTM D2863 IEC 707 ASTM D2863

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