

Melochem 751

Melamine Formaldehyde

Chemiplastica, Inc.

Message:

The Melochem 751 Dry Granulated Moulding Compound are based on melamine-formaldehyde resins fortified with high-class cellulose as reinforcement and further modified with minor amounts of special purpose additives, pigments, cure regulators and lubricants.

Melochem 751 grade is a general-purpose compression grade.

The Melochem 751 Moulding Compounds can be supplied in most colours from translucent pastels to black.

Moulded parts are free from odour, light stable and have good moisture resistance.

Hard and Glossy surface with excellent scratch and chemical resistance. Fats, oils and common organic solvents like alcohol and acetone do not attack the materials and they are also resistant to surfactants and weak bases. They will also withstand attack from weak acids for a shorter duration.

Oxygen index is 40% and is achieved without the use of external flame-retardants. No halogens are present in the composition.

The products comply with the requirements of the widely used material specifications :

DIN 7708 type 152 and 152.7 (*)

ISO 2112 type MF B10 and B11 (*)

UL certified

(*) included in ISO 14528

Fields of application: Unique porcelain-like properties, unmatched by any other plastic material, makes Melochem 751 Moulding Compound particularly suitable for a number of household and foodservice applications including dinnerware, ramekins, ashtrays, jugs, ladles, bowls and similar objects.

Melochem 751 is also used in the manufacture of retail, commercial and military grade buttons.

Though not specifically developed for electrical applications this product can nevertheless be used for applications requiring superior electrical properties such as arcing, tracking and flame resistance.

These products have a high-class feel and can be manufactured by using efficient plastic moulding technology.

By pressing a foil onto the surface, unlimited range of decorative patterns can be achieved.

The moulded items exhibit low water absorption properties and are therefore are dishwasher safe.

General Information			
UL YellowCard	E177332-226446	E57661-246242	E70218-249106
Filler / Reinforcement	Cellulose		
Additive	Lubricant		
	Unspecified Additive		
Features	Alcohol Resistant		
	Base Resistant		
	General Purpose		
	Good Chemical Resistance		
	Halogen Free		
	High Gloss		
	High Hardness		
	Light Stabilized		
	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/Electronic Applications		
	Food Service Applications		
	Household Goods		
	Military Applications		
	Table Products		
Agency Ratings	ASTM D 704, I		
Appearance	Colors Available		
Forms	Granules		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.50	g/cm ³	ISO 1183
Molding Shrinkage			ISO 2577
-- ¹	1.2 to 1.5	%	
--	0.70 to 0.90	%	
Water Absorption	< 300.0	mg	ISO 62
Emission			ISO 4614
Acetic Acid	< 3.00	mg/l	
Ethanol	< 3.00	mg/l	
Water	< 3.00	mg/l	
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/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	> 5.0	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (8.0 MPa, Unannealed)	> 110	°C	ISO 75-2/C
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+11	ohms	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	> 40	%	ASTM D2863

NOTE

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| 1. | Post-shrink |
| 2. | 180 sec, < B H2-10 |

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