

# Melochem 791

Melamine Formaldehyde

Chemiplastica, Inc.

## Message:

The Melochem 791 Moulding Compound in powder form 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.

The Melochem 791 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 fro 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 791 Moulding Compound particularly suitable for a number of household and foodservice applications including dinnerware, ramekins, ashtrays, jugs, ladles, bowls and similar objects.

Melochem 791 is also used in the manufacture of retail, commercial and military grade buttons.

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	E70218-249106
Filler / Reinforcement	Alpha Cellulose	
Features	Alcohol Resistant	
	Base Resistant	
	Good Chemical Resistance	
	Halogen Free	
	High Gloss	
	High Hardness	
	Light Stabilized	
	Low to No Odor	
	Lubricated	
	Moisture Resistant	
	Oil Resistant	
	Recyclable Material	
	Renewable Resource Content	
	Scratch Resistant	
	Solvent Resistant	
Uses	Food Service Applications	
	Household Goods	
	Military Applications	
	Table Products	

Agency Ratings	ASTM D 704, I		
Appearance	Colors Available		
Forms	Powder		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.50	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage			ISO 2577
-- <sup>1</sup>	1.0 to 1.3	%	
--	0.60 to 0.80	%	
Water Absorption	< 200.0	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 <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength	> 5.0	kJ/m <sup>2</sup>	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 <sup>2</sup>	960	°C	IEC 707
Oxygen Index	> 40	%	ASTM D2863
NOTE			
1.	Post-shrink		
2.	180 sec, < B H2-10		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: [sales@su-jiao.com](mailto:sales@su-jiao.com)

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

