

Melamine moulding compound

Melamine moulding compounds (thermosetting plastics) are amino moulding compounds composed of melamine formaldehyde.

Thermosets offer many advantages over basic thermoplastics and are suitable for compression , transfer or injection moulding. They are produced in a precise, brilliant, light fastness and vibrant range of colors.

Melamine moulding compounds are strong , glossy , very very durable and highly resistant to staining. They have better resistance to heat, solvents, chemicals, moisture, electricity and scratching than urea moulding compounds.

Physical and chemical specifications

Parameter	Value	Unit
Appearance	Solid – granular form	
Colour	Different according to customer requirements	
Flow	160 – 220 (Compression) 100 – 140 (Injection)	mm x 10 ⁻²

CT	36 – 44 (Compression) 50 – 60 (Injection)	sec
Bulk density	0.60 – 0.65	gm/cm ³
Specific weight	1.4 - 1.5	gm/cm ³
Impact	7 min	Kpcm/cm ²
Notch impact	1.5 min	Kpcm/cm ²
Bending	800 min	Kp/cm ²
Martens	120 min	⁰ c
Tracking resistance	> 600	KA.1
Dielectric rigidity	12 min	Kv/mm
Shrinkage	0.9 max	%
Surface resistance	10 min	Mega ohm
Water absorption	200 max	mg

Major application areas

- Melamine thermosets are approved for contact with foodstuffs and they don't affect the food's flavor even at high temperatures so they are used in kitchen, utensils and dinner ware.
- Bathroom accessories and electrical components.
- Precision medical components.

Packing ,Handling & storage

Packing : • 25Kgs. nett laminated polyethylene bags.

Handling : It is advisable to wear a dust mask while emptying the bags . Hands should be thoroughly washed at the end of the working day and before meals.

Storage : • Storage at 25⁰c gives stability for 6 months
• A higher temperature affect the materials flow and its mouldability

