

## **Phenolic moulding compound**

Phenolic moulding compounds are thermosetting plastics.

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

This material has a superior high voltage resistance, highly mechanical strength, good heat resistance, good dimension stability and superior chemical resistance.

## **Physical and chemical specifications**

<b>Parameter</b>	<b>Value</b>	<b>Unit</b>
Appearance	Solid – granular form	
Colour	Different according to customer requirements	
Flow	150 – 180 (Compression) 45 – 60 (Injection)	mm x 10 <sup>-2</sup>
CT	50 – 60 (Compression) 65 – 80 (Injection)	sec
Bulk density	0.56 – 0.60	gm/cm <sup>3</sup>

Specific weight	1.3 - 1.4	gm/cm <sup>3</sup>
Impact	6 min	Kpcm/cm <sup>2</sup>
Notch impact	1.5 min	Kpcm/cm <sup>2</sup>
Bending	700 min	Kp/cm <sup>2</sup>
Martens	125 min	<sup>0</sup> c
Tracking resistance	> 600	KA.1
Dielectric rigidity	12 min	Kv/mm
Shrinkage	0.9 max	%
Surface resistance	8 min	Mega ohm
Water absorption	150 max	mg

## **Major application areas**

- Many applications in electrical and electronic markets : insulation boards, switching parts, electrical devices, parts for telecommunication use , commutators and wiring devices
- Automotive parts .
- Household appliances.

## 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 25<sup>0</sup>c gives stability for several years .  
• A higher temperature affect the materials flow and its mouldability

