

Trademark **Emsodur Melamin, Type III**

Manufacturer Emsodur AG  
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Typical properties: Type III, a thermoset Melamine Formaldehyde, meets the specifications of MIL-P-85891A. The finished product contains no inorganic fillers and is treated with an anti-static agent.

Chemical Nature	Inert
Colour	white / multi-coloured
Appearance / Shape	Granular / irregular with sharp,
Dimension	12/16 mesh                      1.70 / 1.18mm 16/20 mesh                      1.18 / 0.85mm 20/30 mesh                      0.85 / 0.60mm 20/40 mesh                      0.85 / 0.43mm 30/40 mesh                      0.60 / 0.43mm 40/60 mesh                      0.43 / 0.25mm 60/80 mesh                      0.25 / 0.18mm
Storage stability	unlimited, when stored in a cool and dry place

## Physical characteristics

Density	1.40 – 1.60 g/cm <sup>3</sup>
Bulk density	0.65-0.75 kg/l (depending on size)
Hardness	64-72 Barcol 4.0 Mohs
Tensile strength (ASTM D638)	5'000 – 15'000 psi
Elongation (ASTM D638)	0.6-1.0%
Compressive Strength (ASTM D695)	33'000 – 45'000 psi
Idoz impact (ASTM D256A)	0.20-0.4 ft lb/in
Explosibility	.09 oz/cu ft (NACE CR 87.011 June 1987)
Water absorption	<1.0% (23°C/50 % r.F. DIN 53472)

## Chemical characteristics

Composition	granulated aminoplastics (Melamine)
pH-value	4 – 8 (at 250 g/l H <sub>2</sub> O, 20°C)
Ash content	max. 0.5%

## Thermic characteristics

Ignition Temperature	>530 °F -
Flammability UL 94 1,6 mm	V-0