

**Jacaab Micronized Melamine J-40
Technical Data Sheet**

June 1, 2007

Micronized Melamine can be used to enhance the flame-retardant properties of polyurethane foam products, coatings and rubber products. When exposed to heat and flames, Melamine decomposes, absorbing heat and causing a cooling effect. And since it also gives off nitrogen during decomposition, this helps to starve the fire of oxygen. This inhibits the spread of flames and the generation of toxic smoke.

CAS No: 108-78-1

Appearance: Fine grade white crystalline powder.

Particle size: Typical distribution:

99 vol% below	40.00 micron
90 vol% below	22.84 micron
50 vol% below	9.911 micron
10 vol% below	1.143 micron

Specifications:

Melamine, by wt.	99.8% min
Ash, % by wt.	0.01% max
Melting point	350-354 Deg C (decomposes)
Solubility in water (20Deg C)	Slight
Moisture % by wt.	0.10%
Screen Analysis	
% on 40 Mesh	0% Retained
% on 425 Mesh	< 10% Retained
Molecular Weight	126.13
Density	1.573

WARNING: Melamine is non-flammable however; heating at temperature above 300C could result in decomposition. Adequate ventilation and personal protective equipment is recommended. In handling Melamine the use of gloves, safety glasses and respiratory protection is recommended.

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