Melamine Market Global Information: By Forms (Melamine Resin, Melamine Foams), Application (Laminates, Wood Adhesives, Surface Coatings, and Thermoset Plastics), End-Use Industry (Construction, Chemical, Textile, Automotive) and Region Forecast Till 2023

Melamine is a white crystalline substance belongs to the family of heterocyclic organic compounds. It contains 66% of nitrogen by mass. Melamine is combined with formaldehyde to produce melamine formaldehyde resins by condensation polymerization. Melamine formaldehyde resins or melamine resins are hard, durable, glossy, and exhibit strong resistance to heat, moisture, stain, and wear.

Melamine resins are widely used to form laminates. Laminates are highly suitable for decoration and protection purposes. Laminates find a wide application in housing, construction, and electrical applications and thus positively impacting the growth of global melamine market. Melamine resins are also used as a wood adhesive and have application in bonding hardwood, plywood, particleboard, and medium density fiberboard with laminates and is substantially contributing to the growth of global melamine market. Additionally, melamine resins are strongly thermosetting and can be molded into a variety of products for our daily life. Final thermoset plastics include household appliances such as dinnerware, food containers, utensil handles, electric sockets, and much more. Thermoset plastics application of melamine is one of the major drivers of the global melamine market and is expected to continue growing in the forecast period due to large scale consumer preference. Melamine resin is also used to produce various surface coatings, enamels, and automotive paint additives. This includes clear finishes for paper, fabrics, wood, and metals. Melamine resin coatings on refrigerators, washing machines, hospital equipment, and kitchen utensils are highly durable, and show high resistance to chemical, water, heat and scratch. Additionally, melamine resins coatings help to reduce solvent emissions in automotives and thus have a positive impact on the environment. Melamine plays an important role in wide range of flame-resistant materials, due to high nitrogen percentage in upholstery fabrics and firemen uniforms, thermal liners, heat resistant gloves and aprons. Moreover, sulfonated melamine formaldehyde (SMF) is a polymer used as a cement admixture to reduce the water content in concrete, thus results in concrete with a lower porosity and a higher mechanical strength. Melamine resins are used for a variety of textile applications to improve wrinkle resistance in cotton and cotton-synthetic blends. Furthermore, they are used to treat banknote papers and wallpapers to impart resistance to rub, wrinkle, and moisture. Melamine can also be converted into foam structures with a distinctive pore structure, which is extremely hard. It can be used as an insulating and soundproofing in buildings, suspended baffles, acoustic panels, and metal ceiling panels and also as a cleaning abrasive.

Melamine is safe for normal use, however, food products that are contaminated with it can be unsafe for consumption. For instance, according to WHO, melamine was found in wheat gluten and rice protein concentrate exported from China and used in the manufacture of pet food in the United States, which caused death of a large number of dogs and cats due to kidney failure. Melamine is harmful if swallowed, inhaled or absorbed through the skin. Chronic exposure may cause cancer or reproductive damage. It is also an eye, skin and respiratory irritant. Increasing consumer concern towards formaldehyde emission from melamine-based thermoset plastics such as dinnerware and food containers is likely to
hamper the marker growth.

**Global Melamine Market, by Application 2017 (%)**

![Graph showing the distribution of the global melamine market by application. 35% is labeled as Laminates.]

Source: MRFR Analysis

**Regional Analysis**

The global melamine market is spanned across five regions namely North America, Europe, Asia Pacific, Middle East & Africa, and Latin America.

Asia Pacific is leading the global market. China is the largest and the fastest growing market in Asia Pacific, both in terms of production and consumption due to a huge real estate market. Other countries such as India, Japan, Indonesia, and Malaysia are also expected to witness a significant growth due to rising demand from the construction industry. Additionally, rising disposable income and changing lifestyle are also expected to boost the regional melamine market.

Europe is the second largest melamine market across the globe. The market growth is driven by the residential construction, renovation activities, and strong automotive industry. Increased residential & renovation activities is expected to witness high demand for laminate-based furniture and cupboard storage for kitchen, bathroom among other, and wood adhesives.

The Middle East is expected to show steady growth for melamine due to ongoing infrastructural projects taken up by government mainly in Qatar & U.A.E to flourish tourism industry. Melamine market in North America is relatively mature and is expected to remain the same over the review period 2017-2023.

Latin America is expected to show sluggish growth, due to slow overall development of the region.

**Market segmentation**

The global melamine market is segmented by form, application, end-user industry, and region.

On the basis of the product type, the global melamine market is segmented into melamine resin, melamine foam, and others.

On the basis of the application, the global melamine market is segmented into laminates, wood adhesives, thermoset plastics, surface coating, and others.

On the basis of the end-user industry, the global melamine market can be segmented into construction, chemical industry, textile industry, automotive industry, and others.

On the basis of the regions, the global melamine market is segmented into Asia Pacific, North America, Europe, the Middle East & Africa, and Latin America.

**Key Players**

Some of the prominent players operating in the global melamine market are Haohua Junhua Group Co, Ltd. (China), OCI Nitrogen (Netherlands), BASF SE (Germany), Cornerstone Chemical Company (U.S.), Qatar Melamine Company (Qatar), Sichuan Golden Elephant Chemical (China), Mitsui Chemicals, Inc. (Japan), NISSAN CHEMICAL INDUSTRIES. LTD. (Japan), Methanol Holdings (Trinidad) Limited (U.S.), and Boralis AG (Austria).
Intended Audience

- Melamine manufacturers
- Traders and distributors of melamine
- Research and development institutes
- Potential investors
- Raw material suppliers
- Nationalized laboratory

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