

# Phenolic Resin MP-332

## Properties and Characteristics

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MP-331 is a raw material for CR-based adhesives as well as high-grade paints, metal coating formulations, and high-grade adhesives. It is a curing agent for butyl rubber, natural rubber, styrene-butadiene rubber, and silicon-butadiene rubber. It can also be used as a vulcanizator in rubber products. It is especially used for sulfurizing butyl rubber to obtain good performance of small deformations as well as increase heat resistance and tensile strength.

## Specifications

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| Property                     | Value                                    |
|------------------------------|--|
| CAS Number                   | 25085-50-1                               |
| EINECS Number                | 500-005-2                                |
| Molecular Formula            | $(C_6H_6O-CH_2O)_x$                      |
| Molecular Weight             | 134.133                                  |
| Other Names                  | Para Tertiary Butylphenol Formaldehyde   |
| Appearance                   | Translucent light yellow solid flakes    |
| Softening point (R&B Method) | 100-110°C                                |
| Free phenol                  | 2% max                                   |
| Oil Solubility               | Completely soluble (1:2 Tung oil, 240°C) |
| Hydroxymethylate             | 9-13%                                    |
| Moisture                     | 1.5% max                                 |
| Ash                          | 0.2% max                                 |

## Applications

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MP-332 is used to produce chloroprene rubber adhesive. It is especially applicable in adhesives for shoes, increasing heat-resistance and adhesive properties. Effects are greatly enhanced when used in combination with terpene resin. Used extensively in the coating industry, MP-331 is used to produce enamels for external use, floor lacquers, marine coatings, antirust paints, water-based printing inks, and antirust oil products. It can be heated with dry oil into nitro lacquer which provides good luster, water and chemical resistance, weatherability, UV protection, and electrical insulation. It can also be used as a sulfidizer, intensifier and tackifier to produce terylene insulation adhesive tapes or anti-corrosive adhesives to improve the service period of products.

**Packaging**

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25kg paper-plastics compound bags other packaging available upon client's requirements; 17MT/20' FCL.