



MONDUR[®] PC

Modified Polymeric MDI

Product Code: **C573**

Description

Mondur PC modified 4,4'-diphenylmethane diisocyanate (MDI) is used to manufacture polyurethanes. As with any product, use of Mondur PC isocyanate in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability.

Product Specifications

Property	Value
NCO, Wt. %	25.5–26.5%
Viscosity* at 25°C (max)	105–175 mPa·s

Typical Properties**

Property	Value
Appearance	Colorless to pale yellow liquid
Specific Gravity at 25°C	1.22
Flash Point, PMCC	213°C
Freezing Temperature	15°C

Storage and Handling

Mondur PC isocyanate must be stored in tightly closed containers and protected from contamination with moisture and other foreign substances, which can adversely affect processing. It will react with water to form ureas and CO₂ gas, which may cause sealed containers to expand and rupture. Partially filled containers should be blanketed with dry nitrogen.

Storage temperatures should be maintained between 20° and 35°C (68° and 95°F). Under these conditions, Mondur PC isocyanate will remain clear for up to six months from date of receipt. Within this range, lower storage temperatures will maximize the storage life of the product.

Mondur PC isocyanate must not be allowed to freeze. Exposure to temperatures less than 20°C (68°F), even for short periods of time, can result in the formation of solid material. Appropriate precautions must be taken during shipment and storage.

Prolonged storage of solid or partially solid Mondur PC isocyanate may result in the formation of MDI dimer in amounts which exceed its solubility in the prepolymer at normal storage temperatures. This can make the product unusable.

If solids form because of exposure of Mondur PC isocyanate to low temperatures, it may be possible to reliquify the product by heating. Use a well-ventilated oven for the minimum time necessary to render it clear. The temperature of the product should not exceed 60°C (140°F). Agitation or drum rollers are recommended to avoid excessive local heating, which will degrade the isocyanate.

Significant amounts of MDI dimer may form during the heating process. As a result, the remelted isocyanate may be cloudy, and the processing behavior and/or properties of the final product may be affected.

Health and Safety Information

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling Mondur PC isocyanate. Before working with this product, you must read and become familiar with the available information on its hazards, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., material safety data sheets and product labels. Consult your Bayer MaterialScience representative or contact Bayer's Product Safety and Regulatory Affairs Department in Pittsburgh, Pa.

Note: The information contained in this bulletin is current as of October 2003. Please contact Bayer MaterialScience to determine whether this publication has been revised.

* Brookfield viscosity method.

** These items are provided as general information only. They are approximate values and are not part of the product specifications.

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