



BAYTEC® ENC-5003

Polymeric MDI

CAS No. 9016-87-9

Product Code: L904A

Description

Baytec ENC-5003 is a low-functionality polymeric diphenylmethane diisocyanate (PMDI) useful in combination with polyols in the production of cast urethanes for encapsulation of electrical components. It is also useful in adhesive applications calling for urethane bonding agents. As with any product, use of Baytec ENC-5003 isocyanate in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability.

Storage

Baytec ENC-5003 isocyanate must be stored in tightly closed containers and protected from contamination with moisture and foreign materials, which can adversely affect processing. It will react slowly with water to form polyureas and liberate CO₂ gas, which may cause sealed containers to expand and rupture. If maintained between 18°–30°C (64°–86°F) the shelf life is at least six months from date of receipt.

Typical Properties*

Property	Value
Appearance	Dark brown liquid
NCO, Wt. %	32.6
Acidity, Wt. %	0.018
Viscosity** at 25°C, mPa•s	20
Specific Gravity at 25°C	1.19
Flash Point, PMCC, °C	191

**Brookfield viscosity method.

Health and Safety Information

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling Baytec ENC-5003 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 over-emphasized. 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.

