



Product Data Sheet

I-BOND[®] PB FC 4320

I-BOND[®] PB FC 4320 is a standard functionality reactivity modified diphenyl methane diisocyanate (MDI).

APPLICATION

I-BOND[®] PB FC 4320 was developed principally for the use in the production of different types of Particle Board (PB), to be used as a fast cure resin in face and/or core layer, or in hybrid systems in combination with (M)UF resins.

For more information about this product, please contact the nearest Huntsman technical centre or contact us at www.ibondwood.com.

TYPICAL PROPERTIES

| Property | Value | Unit | Method |
|--------------------------|-------------|-------|----------|
| Appearance | Brown/Amber | | |
| NCO value | 30.8 | % | PU/IV-1 |
| Viscosity (25 °C) | 250 | mPa.s | PU/VIS-1 |
| Hydrolysable chlorine | <= 2000 | ppm | PU/HC-1 |
| Specific gravity (25 °C) | 1.23 | | PU/SPG-1 |

STORAGE AND HANDLING

Containers of I-BOND[®] PB FC 4320 should be kept properly closed and stored indoors in a well-ventilated area under normal factory conditions. Storage at temperatures ranging from 20 - 30 °C provides a convenient viscosity for handling. Storage at low temperature is not recommended because it may lead to some crystallisation; this material must therefore be protected from frost. Storage at temperatures above 50°C is not recommended, since this can lead to the formation of insoluble solids and also the viscosity build-up increases on extended storage. Under the recommended storage conditions and if protected from humidity and contaminants, i.e. in properly sealed drums, cans, etc., I-BOND[®] PB FC 4320 has a storage life of 6 months at the customer.

In case of storage in bulk containers, please contact our Sales representative for further details. Detailed information on how to obtain optimum bulk storage conditions, is available in the ISOPA document Guidelines for Safe Loading/Unloading, Transportation & Storage of TDI and MDI. Reaction with atmospheric moisture is prevented by storing I-BOND[®] PB FC 4320 in carefully sealed containers under a dry air atmosphere.

During handling, the product must be protected from water ingress and from atmospheric moisture. Containers should be re-sealed immediately after each sampling. The reaction of isocyanates with water leads to the formation of insoluble urea's and carbon dioxide gas, which can lead to pressure build-up in closed containers. Containers used for I-BOND[®] PB FC 4320 must therefore be absolutely dry. The precautions necessary when handling I-BOND[®] PB

FC 4320 i.e. MDI, and the decontamination procedures recommended to be used in case of spillage, are described fully in the publication PU 193-1E; MDI-based compositions: Hazards and safe-handling procedures.

HEALTH AND SAFETY

The appropriate health and safety advice can be found in the safety data sheet for I-BOND[®] PB FC 4320, available on request. The applicable Safety Data Sheet should be reviewed by customer before handling the Huntsman product. All users of I-BOND[®] PB FC 4320 are advised to read the publication PU 193-1E; MDI-based compositions: Hazards and safe-handling procedures.

For further information, please contact your nearest sales office: http://www.huntsman.com/PU_customer_service

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