



Product Data Sheet

I-BOND[®] PB EFC 4322

I-BOND[®] PB EFC 4322 is a standard functionality high reactivity modified diphenyl methane diisocyanate.

APPLICATION

I-BOND[®] PB EFC 4322 was developed principally for use in the production of particleboard panels. The product has also been designed to offer faster cure or better properties in the production of 100 % MDI PB boards, or when it is used as a hybrid system with a formaldehyde based resin. In a composite wood manufacturing facility it will reduce cycle times and so increase the typical production rate.

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 liquid		
NCO value	27	%	PU/IV-1
Viscosity (25 °C)	400	mPa.s	PU/VIS-1
Hydrolysable chlorine	<= 2000	ppm	PU/HC-1
Specific gravity (25 °C)	1.21		PU/SPG-1

STORAGE AND HANDLING

Containers of I-BOND[®] PB EFC 4322 should be kept properly closed and stored indoors in a well-ventilated area under normal factory conditions. Storage at room temperature 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 EFC 4322 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 EFC 4322 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 EFC 4322 must therefore be absolutely dry. The precautions necessary when handling I-BOND[®] PB EFC 4322, 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 EFC 4322, which is available on request. The applicable Safety Data Sheet should be reviewed by customer before handling the Huntsman product. All users of I-BOND[®] PB EFC 4322 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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