

Advanced Materials**Resin XB 6078***

RESIN XB 6078 IS A ONE-COMPONENT SYSTEM WITH HIGH REACTIVITY,
BASED ON A SOLID BISPHENOL-A EPOXY RESIN

| | | | |
|--|---|-----------------------|----------------------|
| APPLICATIONS | Matrix system for reinforced parts: possibility to produce preimpregnated storage stable mats and fleeces. Binder for preforms. | | |
| PROPERTIES | The system allows the use of simple processing methods with very short cycle times. | | |
| KEY DATA | Specified key data | | |
| | Aspect (visual) | with powder | |
| | Epoxy index (ISO 3001) | 1.15 - 1.65 | [Eq/kg] |
| | Amine value (ISO 9702) | 0.65 - 1.25 | [Eq/kg] |
| | Typical key data | | |
| | Softening point (DIN 51920) | ~ 85 | [°C] |
| | Density at 25 °C (ISO 8130) | 1.1 - 1.5 | [g/cm ³] |
| | Tg max (DSC) | 100 - 120 | [°C] |
| | As-supplied form | powder | |
| | Odour | slight | |
| Shelf life (23 °C) | 2 years | | |
| | Hazardous decomposition products | cf. safety data sheet | |
| PROCESSING | Curing | | |
| | at 120 °C | ~ 220 | [s] |
| | at 140 °C | ~ 120 | [s] |
| | at 160 °C | ~ 60 | [s] |
| | at 180 °C | ~ 45 | [s] |
| | The optimum curing / pressing times must be determined for each individual case. They are strongly dependant on the thickness of the component and the type of tools. | | |
| | Geltime (manual) | | |
| | at 120 °C | ~ 40 | [s] |
| | at 140 °C | ~ 30 | [s] |
| | at 160 °C | ~ 15 | [s] |
| at 180 °C | ~ 10 | [s] | |
| For the optimal processing of preimpregnated reinforced parts in a press a good flow of the binder, the correct pressure and form are necessary. | | | |
| STORAGE | Provided the product is stored dry in its original, closed container at the mentioned temperature, it will have the shelf life indicated on the label. Partly emptied containers should be closed immediately after use. | | |

* In addition to the brand name product denomination may show different appendices, which allows us to differentiate between our production sites: e.g., BD = Germany, US = United States, IN = India, CI = China, etc.. These appendices are in use on packaging, transport and invoicing documents. Generally the same specifications apply for all versions. Please address any additional need for clarification to the appropriate Huntsman contact.

**HANDLING
PRECAUTIONS**

Forced ventilation and dust masks or respirators should be used to ensure that operatives do not breathe in dust generated by the system.

Personal hygiene*Safety precautions at workplace*

| | |
|------------------------|--------------------------------------|
| protective clothing | yes |
| gloves | essential |
| arm protectors | recommended when skin contact likely |
| goggles/safety glasses | yes |

Skin protection

| | |
|----------------------|-------------------------------------|
| before starting work | Apply barrier cream to exposed skin |
| after washing | Apply barrier or nourishing cream |

Cleansing of contaminated skin

Dab off with absorbent paper, wash with warm water and alkali-free soap, then dry with disposable towels. Do not use solvents

Disposal of spillage

Soak up with sawdust or cotton waste and deposit in plastic-lined bin

Ventilation

| | |
|---------------|--|
| of workshop | Renew air 3 to 5 times an hour |
| of workplaces | Exhaust fans. Operatives should avoid inhaling vapours |

FIRST AID

Contamination of the eyes by resin, hardener or mix should be treated immediately by flushing with clean, running water for 10 to 15 minutes. A doctor should then be consulted.

Material smeared or splashed on the skin should be dabbed off, and the contaminated area then washed and treated with a cleansing cream (see above). A doctor should be consulted in the event of severe irritation or burns. Contaminated clothing should be changed immediately.

Anyone taken ill after *inhaling* vapours should be moved out of doors immediately.

In all cases of doubt call for medical assistance.

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