

TECHNICAL DATA SHEET**DESCRIPTION**

PUMA[®] 2020 is a highly active, pure liquid, tertiary amine, suitable for use as a blowing catalyst in a number of rigid and flexible polyurethane foam applications.

APPLICATION

In model systems, PUMA[®] 2020 has proven to have catalytic activity equivalent to other established blowing catalysts for the urea reaction. However, PUMA[®] 2020 has a greater effect than established blowing catalysts on the urethane or gelling reaction. It is very effective in pour-in-place polyurethane systems (such as rigid appliance systems) which are based on MDI. At a use level of 1.5 php it provides the necessary flowability and cure rates required in the production environment. PUMA[®] 2020 is also recommended for TDI, TDI/MDI and MDI HR flexible molded foams, as well as for use in integral skin and microcellular systems. It can also be used as a raw material to make quaternary ammonium salt.

GUARANTEED VALUES

Parameter	Value
pentamethyldiethylenetriamine content	98% min.
Water content	0.5% max.

TYPICAL VALUES

Parameter	Value
Physical State	Clear liquid
Odor	Ammoniacal
Molecular Weight	173
Flash Point (TCC)	72 °C / 162 °F
Specific Gravity (Water = 1)	0.85
Vapor Pressure at 21 °C (70 °F)	3.00 mmHg
Boiling Point	201 °C / 394 °F
Solubility in Water	100%
Drum net weight	170kg / 375lb

NOTES

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