

TECHNICAL DATA SHEET**DESCRIPTION**

PUMA[®] 5093 is a non-hydrolytic polysiloxane-polyether surfactant. It has good solubility and stability in premixing systems containing isocyanate, polyether polyol, fluorocarbon foaming agent, water, amine, organic tin catalyst, and fire retardant. It has good emulsifying and stabilizing abilities. It provides good fluidity during the foaming process.

APPLICATION

PUMA[®] 5093 provides extremely good dimensional stability, highly closed and uniform cellular structure, and mechanical strength. It is particularly suitable for the production of solar energy water heaters and polyurethane sealants.

GUARANTEED VALUES

Parameter	Value
Viscosity at 25 °C (77 °F)	700 ± 200 mPa.s
pH (4% water solution)	5.0 ± 1.5

TYPICAL VALUES

Parameter	Value
Physical State	Transparent liquid
Odor	Slight polyether-like
Specific Gravity (Water = 1)	1.03 ± 0.02
Freezing Point	< 0 °C (< 32 °F)
Water content	0.3% max.
Solubility in Water	Soluble

NOTES

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