

## Northstar Polymers SAI-1 Low Viscosity Variable Ratio Polyurethane Gel

Category : Polymer , Thermoset , Polyurethane, TS , Thermoset Polyurethane, Elastomer, Unreinforced

### Material Notes:

SAI-1 is custom formulated polyurethane gel material to yield very soft elastomer gel material from low viscosity components at room temperature. This material is variable mixing ratio so that the user can change the properties of the product simply by changing the same combination of part-A and part-B liquid components. The material does not contain plasticizer so that it will not leach plasticizer to affect the other plastic material surrounding the gel part, or to cause a severe hardness change in long term use. Possible application for this material includes potting and encapsulation of optical cables, manufacturing of puncture-free tire layer, cushioning and padding parts by open-cast molding, and many other custom applications. This material is not designed to be cast directly into flexible film casings. Information provided by Northstar Polymers.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Northstar-Polymers-SAI-1-Low-Viscosity-Variable-Ratio-Polyurethane-Gel.php](http://www.lookpolymers.com/polymer_Northstar-Polymers-SAI-1-Low-Viscosity-Variable-Ratio-Polyurethane-Gel.php)

Processing Properties	Metric	English	Comments
Processing Temperature	21.1 - 32.2 °C	70.0 - 90.0 °F	Prepolymer Temperature
	21.1 - 32.2 °C	70.0 - 90.0 °F	Curing Agent Temperature
Mold Temperature	21.1 - 32.2 °C	70.0 - 90.0 °F	
Cure Time	60.0 - 180 min	1.00 - 3.00 hour	De-mold Time
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	4320 - 5760 min	72.0 - 96.0 hour	Complete Cure Cycle
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	11.0 - 12.0 min	11.0 - 12.0 min	

Descriptive Properties	Value	Comments
Curing Agent	PAA-109	
Prepolymer	MPC-022	
Weight Ratio	1:10.391	Prepolymer to Curing Agent Ratio, Shore Hardness 00 <0.1
	1:7.422	Prepolymer to Curing Agent Ratio, Shore Hardness 00 48-53
	1:7.917	Prepolymer to Curing Agent Ratio, Shore Hardness 00 35-40
	1:8.412	Prepolymer to Curing Agent Ratio, Shore Hardness 00 28-33
	1:9.402	Prepolymer to Curing Agent Ratio, Shore Hardness 00 3-6

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