

## Product Data Sheet

# Thioplast™ G1

Status:  
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Liquid polysulfide polymer with thiol end groups

<b>Description</b>	Liquid Polysulfide Pre-polymer, end-capped by SH-functional end groups.	
<b>Properties<sup>1)</sup></b> <small>1) Typical properties, not to be construed as product specifications</small>	Appearance	brownish liquid polymer
	SH content	1,8 – 2,0% (related to viscosity/Molecular weight)
	Viscosity (25 °C)	38 – 50 Pas
	Av. Molecular weight	3400 – 4600 g/mol (relative to SEC standard)
	Branching	2,0 mol% (calculated on mol% TCP)
	Water content	max. 0,35%
	Free sulfur	0.01 – 0.1%
	Volatiles	max. 0.5%
	Glass point	approx. – 55 °C
	Flash point	> 230 °C
	CAS-No	68611-50-7
<b>Application</b>	Thioplast G1 is used to formulate flexible, elastic sealants being used in Aerospace applications with best performance in tensile strength, high Nobel Gas retention and low moisture vapor permeability. Furthermore, Thioplast G1 is used in sealants with high tensile strength and good UV-resistance being used in construction applications.	
<b>Curing</b>	Curing agent: Manganese(IV)-oxide (*): 5,7 – 6,3 g/100 g Thioplast G 1 (* ) Pure curing agent: Manganese (IV)-oxide. The concentration of active/activated Manganese (IV)-oxide needs to be considered.	
	<b>Curing paste</b>	<b>pbw</b>
	MnO <sub>2</sub> , Grade Honeywell FA	100
	Santicizer 278	100
	Perkacit DPG	6
	Airex 900	7.4
	Properties of Thioplast G1 cured with 15 g curing paste/100 g Thioplast G1:	
	Shore A-hardness	min 38
	Elongation @ break %	min 75
<b>Packaging</b>	Thioplast G1 is available in 200 Liter drums, 1000 Liter IBC and 20m <sup>3</sup> ISO Bulk.	
<b>Storage</b>	Store the container in cool and dry area, keep it closed when not in use. Shelf life under appropriate storage conditions min 3 years.	
<b>Handling</b>	Full information on the safe handling is available in the Material Safety Data Sheet (MSDS). Further details are available upon request.	

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