

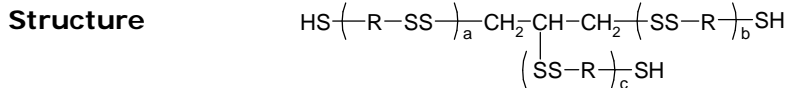


Product Data Sheet

Status:
January 2009

Thioplast™ G 1

Description Liquid polysulfide polymer with thiol end groups



R = $-(\text{CH}_2)_2\text{-O-CH}_2\text{-O-}(\text{CH}_2)_2-$

a + b + c = n = 20 to 21

Properties		
Appearance		brown liquid
SH content	%	1.8 – 2.0
Viscosity (25 °C)	Pa*s	38 – 50
Av. Molecular weight	g/mol	3400 - 3600
Cross-linking agent	mol-% TCP	2.0
Specific weight	kg/m ³	1,286
Water content	%	max 0.3
Sulfur content	%	37 - 38
Free sulfur	%	0.01 – 0.1
Volatile ingredients	%	max 0.3
Glass point	°C	app. – 60 °C
Flash point	°C	> 230 °C
Specific heat	kJ/kg*K	1.26
Heat of combustion	kJ/kg	24,075

Application Base polymer of elastic sealants

Curing Curing agent: Manganese(IV)-oxide^(*): 5.4 – 5.8 g/100 g Thioplast G 1
^(*) pure curing agent substance; the concentration of technical products has to be considered

Curing paste	pbw
Manganese(IV)-oxide, FA	100
Saticizer 278	100
Perkacit DPG	6
Airex 900	7.4

Properties of Thioplast G 1 cured with 14 g curing paste/100 g Thioplast G1:

Shore A-hardness	min	38
Elongation @ break	%	min 75

Packaging Bulk container max 28 t net or lid drums 250 kg net; inner liner, bungs upon request.

Storage Store the container in cool and dry area, keep it closed when not in use.
Shelf life under appropriate storage conditions min 3 years

Handling Full information on the safe handling of Thioplast G 1 is available in the Material Safety Data Sheet (MSDS).

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