

Product Data Sheet

Thioplast™ G131

Status:
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Liquid polysulfide polymer with thiol end groups

Description	Liquid Polysulfide Pre-polymer, end-capped by SH-functional end groups.	
Properties¹⁾ <small>1) Typical properties, not to be construed as product specifications</small>	Appearance	brownish liquid polymer
	SH content	1,0 – 1,3% (related to viscosity/Molecular weight)
	Viscosity (25 °C)	80 – 145 Pas
	Av. Molecular weight	5200 – 6500 g/mol (relative to SEC standard)
	Branching	0,5 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
Application	Thioplast G131 is used to formulate highly flexible and elastic sealants being used in Aerospace applications with best performance in Jet Fuel resistance, high Nobel Gas retention and low moisture vapor permeability. Furthermore, Thioplast G131 is used in highly flexible sealants with good UV-resistance being used in construction applications.	
Curing	Curing agent: Manganese(IV)-oxide (*): 5,3 – 5,6 g/100 g Thioplast G 131 (*) Pure curing agent: Manganese (IV)-oxide. The concentration of active/activated Manganese (IV)-oxide needs to be considered.	
	Curing paste	pbw
	MnO ₂ , Grade Honeywell FA	100
	Santicizer 278	100
	Perkacit DPG	6
	Airex 900	7.4
	Properties of Thioplast G131 cured with 13 g curing paste/100 g Thioplast G131:	
	Shore A-hardness	min 33
	Elongation @ break %	min 120
Packaging	Thioplast G131 is available in 200 Liter drums, 1000 Liter IBC and 20m ³ ISO Bulk.	
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 is available in the Material Safety Data Sheet (MSDS). Further details are available upon request.	

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