

## Product Data Sheet

# Thioplast™ G2267

Status:

July 2019

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>	<table> <tr> <td>Appearance</td> <td>brownish liquid polymer</td> </tr> <tr> <td>SH content</td> <td>1,7 – 1,85% (related to viscosity/Molecular weight)</td> </tr> <tr> <td>Viscosity (25 °C)</td> <td>32 – 38 Pas</td> </tr> <tr> <td>Av. Molecular weight</td> <td>4500 – 4800 g/mol (relative to SEC standard)</td> </tr> <tr> <td>Branching</td> <td>0,7 mol% (calculated on mol% TCP)</td> </tr> <tr> <td>Water content</td> <td>0,25 – 0,30%</td> </tr> <tr> <td>Free sulfur</td> <td>0.01 – 0.1%</td> </tr> <tr> <td>Volatiles</td> <td>max. 0.7%</td> </tr> <tr> <td>Glass point</td> <td>approx. – 55 °C</td> </tr> <tr> <td>Flash point</td> <td>&gt; 230 °C</td> </tr> <tr> <td>CAS-No</td> <td>68611-50-7</td> </tr> </table>	Appearance	brownish liquid polymer	SH content	1,7 – 1,85% (related to viscosity/Molecular weight)	Viscosity (25 °C)	32 – 38 Pas	Av. Molecular weight	4500 – 4800 g/mol (relative to SEC standard)	Branching	0,7 mol% (calculated on mol% TCP)	Water content	0,25 – 0,30%	Free sulfur	0.01 – 0.1%	Volatiles	max. 0.7%	Glass point	approx. – 55 °C	Flash point	> 230 °C	CAS-No	68611-50-7
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<b>Application</b>	<p>Thioplast G2267 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.</p> <p>Furthermore, Thioplast G2267 is used in highly flexible sealants with good UV-resistance being used in construction applications.</p>																						
<b>Curing</b>	<p>Curing agent: Manganese(IV)-oxide (*): 5,7 – 6,3 g/100 g Thioplast G 2267  (*) Pure curing agent: Manganese (IV)-oxide. The concentration of active/activated Manganese (IV)-oxide needs to be considered.</p> <table> <thead> <tr> <th>Curing paste</th> <th>pbw</th> </tr> </thead> <tbody> <tr> <td>MnO<sub>2</sub>, Grade Honeywell FA</td> <td>100</td> </tr> <tr> <td>Santicizer 278</td> <td>100</td> </tr> <tr> <td>Perkacit DPG</td> <td>6</td> </tr> <tr> <td>Airex 900</td> <td>7.4</td> </tr> </tbody> </table> <p>Properties of Thioplast G2267 cured with 18 g curing paste/100 g Thioplast G2267:</p> <table> <tr> <td>Shore A-hardness</td> <td>min 35-37</td> </tr> <tr> <td>Elongation @ break %</td> <td>min 190</td> </tr> </table>	Curing paste	pbw	MnO <sub>2</sub> , Grade Honeywell FA	100	Santicizer 278	100	Perkacit DPG	6	Airex 900	7.4	Shore A-hardness	min 35-37	Elongation @ break %	min 190								
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<b>Packaging</b>	Thioplast G2267 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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