

Product Data Sheet

Thioplast™ G38

Status:

July 2019

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>	<table> <tr> <td>Appearance</td> <td>brownish liquid polymer</td> </tr> <tr> <td>SH content</td> <td>3,2 – 3,5% (related to viscosity/Molecular weight)</td> </tr> <tr> <td>Viscosity (25 °C)</td> <td>6 – 8 Pas</td> </tr> <tr> <td>Av. Molecular weight</td> <td>1800 – 2100 g/mol (relative to SEC standard)</td> </tr> <tr> <td>Branching</td> <td>1,6 mol% (calculated on mol% TCP)</td> </tr> <tr> <td>Water content</td> <td>max. 0.35%</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>> 230 °C</td> </tr> <tr> <td>CAS-No</td> <td>68611-50-7</td> </tr> </table>	Appearance	brownish liquid polymer	SH content	3,2 – 3,5% (related to viscosity/Molecular weight)	Viscosity (25 °C)	6 – 8 Pas	Av. Molecular weight	1800 – 2100 g/mol (relative to SEC standard)	Branching	1,6 mol% (calculated on mol% TCP)	Water content	max. 0.35%	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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Application	Thioplast G38 is used to formulate flexible, low viscos and highly elastic sealants being used in Insulating Glass applications with best performance in high Nobel Gas retention and low moisture vapor permeability.																						
Curing	<p>Curing agent: Manganese(IV)-oxide (*): 9,5 – 10,4 g/100 g Thioplast G 38 (*) 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>MnO₂, 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 G38 cured with 23 g curing paste/100 g Thioplast G38:</p> <table> <tr> <td>Shore A-hardness</td> <td>min</td> <td>36</td> </tr> <tr> <td>Elongation @ break %</td> <td>min</td> <td>100</td> </tr> </table>	Curing paste	pbw	MnO ₂ , Grade Honeywell FA	100	Santicizer 278	100	Perkacit DPG	6	Airex 900	7.4	Shore A-hardness	min	36	Elongation @ break %	min	100						
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Packaging	Thioplast G38 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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