

Product Data Sheet

Thioplast™ G10

Status: July 2019

Liquid polysulfide polymer with thiol end groups

Description	Liquid Polysulfide Pre-polymer, end-capped by SH-functional end groups.
Properties ¹⁾ 1) Typical properties, not to be construed as product specifications	Appearance SH content Viscosity (25 °C) Av. Molecular weight Branching Water content Free sulfur Volatiles Glass point Glass point CAS-No brownish liquid polymer 1,4 – 1,5% (related to viscosity/Molecular weight) 42 – 48 Pas 4400 – 4700 g/mol (relative to SEC standard) 0,0 mol% (calculated on mol% TCP) max. 0,35% 0.01 – 0.1% volatiles max. 0.5% Glass point sprox. – 55 °C 5230 °C 68611-50-7
Application	Thioplast G10 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 G10 is used in sealants with high elasticity and good UV-resistance being used in construction applications.
Curing	Curing agent: Manganese(IV)-oxide (*): 5,7 – 6,3 g/100 g Thioplast G 10 (*) Pure curing agent: Manganese (IV)-oxide. The concentration of active/activated Manganese (IV)-oxide needs to be considered. Curing paste MnO2, Grade Honeywell FA Santicizer 278 Perkacit DPG Airex 900 Properties of Thioplast G10 cured with 15 g curing paste/100 g Thioplast G10: Shore A-hardness min 20 Elongation @ break % min 300
Packaging	Thioplast G10 is available in 200 Liter drums, 1000 Liter IBC and 20m³ 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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