Nouryon

Product Data Sheet

Thioplast[™] G12

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	Appearancebrownish liquid polymerSH content $1,5 - 1,7\%$ (related to viscosity/Molecular weight)Viscosity (25 °C) $38 - 50$ PasAv. Molecular weight $4100 - 4600$ g/mol (relative to SEC standard)Branching $0,2$ mol% (calculated on mol% TCP)Water contentmax. $0,35\%$ Free sulfur $0.01 - 0.1\%$ Volatilesmax. 0.5% Glass pointapprox. -55 °CFlash point > 230 °CCAS-No68611-50-7
Application	Thioplast G12 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 G12 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 12 (*) 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 G12 cured with 15 g curing paste/100 g Thioplast G12: Shore A-hardness min 30 Elongation @ break % min 200
Packaging	Thioplast G12 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.

Legal Disclaimer: All information is based upon tests and data believed to be reliable, however, it is the user's responsibility to determine the suitability for his own use of the products described here. Nothing herein contained is to be construed as permission or as a recommendation to infringe any patent. All orders accepted shall be subjected to the standard conditions of sales of the manufacturing company, Nouryon Functional Chemicals GmbH, Greiz, Germany. Nouryon Functional Chemicals GmbH Liebigstr.7, D-07973 Greiz, Germany Tel. +49-3661-78-0

thioplast@nouryon.com https://sulfurderivatives.nouryon.com/thioplast/