

# Thioplast G21

Liquid polysulfide polymer with thiol end groups (MW > 1800 g/mol)

This grade's unique combination of strength, elasticity, weatherability and gas tightness makes it the industry's first choice for insulating glass sealants. Formulators tailor properties like pot-life, tensile strength, adhesion and elongation at break by choosing from various compatible plasticizers, fillers and other additives. The viscosity, degree of branching and SH content can easily be adjusted by blending this grade with others to generate your tailored Thioplast polysulfide.

CAS number  
68611-50-7

## Characteristics

|  |                         |
|--|-------------------------|
| Appearance   | Brownish liquid polymer |
| Average Molecular weight, relative to SEC standard | 2100-2700 g/mol         |
| Branching, calculated on mol% TCP                  | 2.0 mol%                |
| Flash point  | ≥ 230 °C                |
| Free sulfur  | 0.01-0.1 %              |
| Glass point  | ~ -55 °C                |
| SH content, related to viscosity/Molecular weight  | 2.5-3.1 %               |
| Viscosity, 25°C                                    | 10-20 Pa.s              |
| Volatiles  | ≤ 0.5 %                 |
| Water content                                      | ≤ 0.35 %                |

### Notes:

Typical properties, not to be construed as product specifications.

## Applications

Thioplast G21 is used to formulate flexible, highly elastic sealants being used in Insulating Glass applications with best performance in high Nobel Gas retention and low moisture vapor permeability. Furthermore, Thioplast G21 is used in low viscos sealants with good UV-resistance being used in construction applications. Recommended use in combination with Manganese(IV)oxide curing agent (7.5-9.4 g MnO<sub>2</sub>/100g).

## 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.

## Packaging and transport

Thioplast G21 is available in 200 Liter drums, 1000 Liter IBC and 20m<sup>3</sup> ISO Bulk.

## Safety and 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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## Contact Us

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The Nouryon logo consists of a stylized orange 'N' followed by the word 'ouryon' in a lowercase, sans-serif font, all in orange.