

TECHNICAL DATA SHEET

CRAYVALLAC[®] SL

Micronised polyamide rheology modifier for high temperature process

Polyamide



92% bio-based product

TYPICAL CHARACTERISTICS

Nature	Polyamide
Appearance	Off-white micronized powder
Solid Content (%)	100
Active Content (%)	100
Specific gravity	0.99
Particle size distribution	DV. 1 min: 1.8 µm / DV. 9 max: 15.0 µm
Bulk density	0.4-0.6
Melting Point (°C)	125
Total Bio content (%)	93

DESCRIPTION

CRAYVALLAC[®] SL is a high performance micronised amide wax rheology modifier designed for the high temperature manufacture of moisture curing methoxysilanes systems, where processing temperatures typically lie within the range 90 – 115°C. CRAYVALLAC[®] SL particles are converted to an interacting network of crystalline fibres. It is this network that gives rise to the shear thinning rheology. This shear thinning characteristic provides for a low viscosity at the shear rates associated with application by extrusion, and a very high viscosity under the low shear rates experienced after application. The net result is ease of application followed by excellent sag and slump resistance.

RECOMMENDED ADDITION LEVEL

1-5% under heat and shear

STANDARD PACKAGING

Other packaging may be available upon request

- 15 Kg Bag

HANDLING & STORAGE

It should be stored in the original containers in a dry place at temperatures between 5°C (41°F) and 30°C (86°F). Avoid exposure to direct sunlight or frost. In these conditions, this product should be used within 48 months from production.

MARKETS

Adhesives & Sealants

- Assembly
- Other Adhesives
- Sealants

KEY BENEFITS

FORMULATION

- Easy handling



STORAGE

- Antisettling
- In-can appearance
- Syneresis resistance
- Viscosity stability



APPLICATION

- Gunnability
- Slump resistance
- Temperature resistance



- APEO Free*
- Heavy Metal Free*
- Solvent Free*

* Not intentionally added but not specifically measured (not part of product specification)

- Total Bio content (%)

93

THICKENING MECHANISM

Non Associative



VISCOSITY CONTRIBUTION

Low Shear contribution



Mid Shear contribution



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PROCESSING INSTRUCTIONS

The successful manufacture of methoxysilane based sealants is very dependent on the careful control of moisture levels throughout manufacture and storage. For this reason it is normal practice to pre-dry all pigments and extenders prior to dispersion with the methoxysilane polymer. Alternatively, special grades of low moisture content ingredients may be used. The use of vacuum processing at elevated temperatures serves two key purposes; it prevents the take up of moisture during processing and facilitates the removal of any unwanted water residues introduced with the raw materials. With moisture cured methoxysilane based sealants, we strongly recommend that all additives be quickly dispersed and not allowed to remain in direct contact with the resin component. Prolonged contact may sometimes result in the formation of an insoluble fine skin which later appears as small particles in the final sealant.

HEALTH AND ENVIRONMENTAL DATA

For safe handling please refer to the Safety Data Sheet. For more information about health and environmental data, please contact us.

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