

TECHNICAL DATA SHEET

CRAYVALLAC® SLW

Micronized polyamide rheology modifier for demanding applications

Polyamide



69% 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)	128
Total Bio content (%)	69

DESCRIPTION

CRAYVALLAC® SLW is a high performance micronized amide wax rheology modifier designed for manufacture of one component Silyl-Terminated-Polymer based adhesives and sealants, especially for highly filled systems (demanding applications, High-Tack systems for instance).

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
- Structural Adhesives

KEY BENEFITS

FORMULATION

- Easy handling
- Ready to use



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 (%) **69**

THICKENING MECHANISM

Non Associative

CRAYVALLAC® SLW

PROCESSING INSTRUCTIONS

CRAYVALLAC® SLW is specially designed for manufacture of one-component Silyl-Terminated-Polymer systems where processing temperatures typically lie within the range 55 - 90°C (130 - 194°F). With moisture curing Silyl-Terminated-Polymer based sealants, CRAYVALLAC® SLW is generally added along with the initial charge of Silyl-Terminated-Polymer polymer and plasticizer to a vacuum dispersion vessel either with or without heating capability. This is then followed by the pigments and extenders. Efficient activation of CRAYVALLAC® SLW is achieved during the vacuum dispersion stage by allowing the batch temperature to rise to 55 - 90°C (130 - 194°F) for approximately 30 minutes or until the required level of dispersion is obtained and a suitable low moisture content has been achieved (typically lower than 800 ppm.). Following this, the batch temperature is lowered sufficiently to allow for the safe addition of additives such as moisture scavengers, adhesion promoters and reaction catalysts. The activation process constitutes the conversion of the CRAYVALLAC® SLW particles to an interacting network of crystalline fibers. 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. Activation at too low a temperature, or for too short a time, will result in the formation of an inefficient interacting network and consequently poor sag and slump resistance.

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.

VISCOSITY CONTRIBUTION

Low Shear contribution
Mid Shear contribution



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