

TECHNICAL DATA SHEET

CRAYVALLAC® SLA

CRAYVALLAC® SLA is a low temperature process-resilient rheology modifier for reactive systems

Polyamide



93% bio-based product

TYPICAL CHARACTERISTICS

Nature	Polyamide
Appearance	Off-white micronized powder
Solid Content (%)	100
Specific gravity	0.99
Particle size distribution	DV. 1 min: 1.8 µm / DV. 9 max: 12.0 µm
Bulk density	0.4-0.6
Melting Point (°C)	125
Total Bio content (%)	93

DESCRIPTION

CRAYVALLAC® SLA is a high performance micronised amide wax rheology modifier designed for the low temperature manufacture of reactive adhesive and sealants systems (SMP or hybrids, Anaerobic, Epoxy...). The key innovation behind CRAYVALLAC® SLA is to reach an efficient activation under various and quick processing conditions. The activation range of CRAYVALLAC® SLA is broad from 40 to 90°C. CRAYVALLAC® SLA 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
 - TRANSPORTATION ADHESIVES
- SEALANTS
- STRUCTURAL ADHESIVES

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



CRAYVALLAC® SLA

PROCESSING INSTRUCTIONS

The activation process constitutes the conversion of the CRAYVALLAC® SLA particles into 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. 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. For this grade, only an increase of temperature with high-shear application is needed to develop most of the rheological performance. Indeed, the activation ranges from 40°C to 90°C with varying times to develop the performances. Count 45-60 min for 40°C. From 50°C, only 10 min agitation are required.

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.

Headquarters: Arkema France
51, Esplanade du Général de Gaulle
92800 Puteaux – France
T +33 (0)1 49 00 80 80

