

## TECHNICAL DATA SHEET

## RHEOLUXE® 880

Non-animal origin rheological additive for cosmetics and toiletries

## GENERAL INFORMATION

RHEOLUXE® 880 is a polymeric thickener designed to impart rheological control and film forming benefits in aqueous and emulsion systems. It is a highly efficient rheological modifier for use in formulations with difficult to thicken conditions such as extreme pH or high electrolyte concentration.

## INCI NAME

Bis-C16-20 Isoalkoxy TMHDI/PEG-90  
Copolymer

## KEY PROPERTIES

Non-animal origin

Rheological control

- Predictable, reproducible and stable viscosity control
- Thermostable rheology

Broad pH tolerance

Salt tolerant

Cold processable aqueous solution

## CHEMICAL &amp; PHYSICAL PROPERTIES

|                        |                    |
|------------------------|--------------------|
| Appearance             | Translucent        |
| % Non-volatile         | 29.5 – 30.5        |
| Density @ 25°C Lbs/Gal | 8.60 – 9.00        |
| Viscosity, cps         | 3000– 10000        |
| TMDI residual          | Pass (not present) |

These are typical properties not to be used for specification purposes.

## APPLICATIONS

- Colour cosmetics
- Creams & lotions
- Sunscreens
- Eye products
- Facial makeup
- Haircare products
- Treatment products

## INCORPORATION

RHEOLUXE® 880 is supplied in a convenient 30% solids solution that readily thickens emulsion type formulations. Incorporation at the end of the emulsification process is ideal. It is best not added to the water or lipid phase before emulsions are made.

In simple aqueous systems, RHEOLUXE® 880 should be stirred into the aqueous solution at room or slightly elevated temperatures.

## LEVEL OF USE

Typical addition levels of RHEOLUXE® 880 additive by weight of total formulation are 1.0-3.0% for cosmetics.

## COMPATIBILITY

RHEOLUXE® 880 is compatible with most raw materials used in cosmetics and toiletries. It has been found that high HLB emulsifiers can adversely affect performance.

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#### HEALTH & SAFETY

Before using this product, please consult our Safety Data Sheet (SDS) for information on safe handling and storage. The SDS can be found on the company website.

#### STORAGE RECOMMENDATIONS

Keep container sealed and store at room temperature. RHEOLUXE® 880 may freeze during winter months. It can be warmed to room temperature to bring back to fluid state.

Over time, the polymer may begin to precipitate. The container should be mixed thoroughly to ensure the product is homogenous before use. Mixing can be accomplished by rolling the pail or drum, or by using a mixing blade.

#### SHELF LIFE

RHEOLUXE® 880 has a minimum shelf life of 2 (two) years from date of manufacture.

#### QUALITY ASSURANCE

Quality and continuous improvement are paramount to our business. Facility manufacturing RHEOLUXE® 880 has established strong quality management system and holds ISO 9001 certification.

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