

ELVANOL® 80-18

POLYVINYL ALCOHOL

DESCRIPTION

Elvanol® 80-18 is a unique copolymer of polyvinyl alcohol and another monomer. Elvanol® 80-18 is designed to provide coldwater solubility in the final product when reacted properly with caustic.

Typical Properties of Elvanol® 80-18

Viscosity, cps ¹	17.0-23.0
Solution, pH	5.0-7.0
Volatiles, wt. % max.	5.0
Ash, wt. % max. ²	0.70

¹ Viscosity in mPa.s (cP) of a 4% solids aqueous solution at 20°C (68°F)

² Dry basis, calculated as % Na₂O

SUGGESTED USES

While Elvanol® 80-18 is not cold water soluble as supplied, it is appropriate for use in applications that require quick dissolution of the final product in cold water. Those applications include films for sachets to contain detergents or other products to be processed in cold water solutions. This may eliminate contact with chemicals, or provide pre-measured dosage.

In order to have that cold water solubility, the Elvanol® 80-18 must be reacted with the proper ratio of caustic. Contact your Kuraray technical representative for further details.

FDA STATUS

Elvanol® 80-18 polyvinyl alcohol complies with U.S. Food and Drug Administration (FDA) Regulations under the following Section of Title 21 CFR, and may be used in contact with food, subject to the limitations and requirements therein:

■ 175.105 - Adhesives

SAFETY & HANDLING

Read and understand the Materials Safety Data Sheet (MSDS) before using this product. Elvanol® 80-18 is technical quality polyvinyl alcohol. It is not recommended for inclusion in any food or preparation that might be taken internally.

Under certain conditions of use, dust may be formed from Elvanol® polyvinyl alcohol. Kuraray recommends that dust from Elvanol® be treated as a nuisance dust, which is regulated by the Occupational Safety and Health Administration (OSHA) under Title 29, Code of Federal Regulations, Section 1910.1000. Under this section, an employee's exposure to nuisance dust shall be limited to 15 milligrams per cubic meter (mg/m³) of total dust and 5 mg/m³ of respirable dust on a time-weighted average in any 8-hour shift of a 40-hour week.

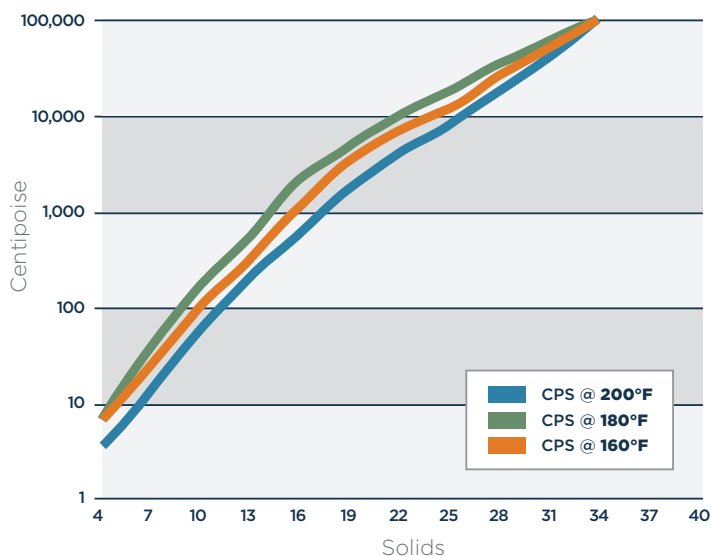
The Kuraray limit for polyvinyl alcohol exposure to nuisance dust is 10 mg/m³, and for respirable dust is 5 mg/m³. If excessive concentrations of dust are encountered, a mask or respirator and goggles should be worn. The mask or respirator should comply with Section 1910.134 of the OSHA regulations; the goggles should comply with Section 1910.133.

For bulk storage and handling of Elvanol® (e.g. storage silos) refer to Elvanol® Bulk Storage and Handling Safety Guide.

Elvanol® may be disposed of by incineration or landfill. However, any disposal method must be in compliance with all applicable local, state and federal regulations.

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VISCOSITY CURVES OF ELVANOL® 80-18



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This publication is not to be taken as a license to operate under, or recommendation to infringe, any patents. CAUTION: Do not use in medical applications involving permanent implantation in the human body. For other medical applications, see Kuraray Medical Caution Statement, H-50102.