

NiTCHEM HV-4

VINYL ACETATE HOMOPOLYMER, CAS NO. 9003-20-7

PRODUCT DESCRIPTION

NiTCHEM HV-4 is a solid, thermoplastic homopolymer. The clear and colorless resin is prepared by polymerization of vinyl acetate. NiTCHEM HV-4 is tasteless.

APPLICATION

Typical applications for NiTCHEM HV-4:

- fiber reinforced plastics
- adhesives
- powder injection molding
- sound damping

PROCESSING

Solid content in styrene	Viscosity Brookfield RVT, 20 RPM, 23°C (PML 002)
20 %	740 mPa·s
30 %	7100 mPa·s
40 %	66000 mPa·s

STORAGE

NiTCHEM HV-4 should not be stored at temperatures above 20 °C in order to prevent caking. Storage conditions must be dry; material must be protected from direct sun exposure. Under these conditions the product has a shelf life of at least 12 months.

PACKING

NiTCHEM HV-4 is supplied in 25kg Paper Bags and 20kg Cartons. Big Bag is available on request.

ADDITIONAL INFORMATION

If NiTCHEM HV-4 is used in applications other than those mentioned, the choice, processing and use of NiTCHEM HV-4 is the sole responsibility of the purchaser. All legal and other regulations must be complied with.

SAFETY NOTES

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from NiTCHEM subsidiaries or may be printed via NiTCHEM Chemical web site <http://polyvinylacetate.webs.com>

Product Data		
Specification data	Inspection Method	Value
Viscosity (10% in ethyl acetate), 20 °C	ASTM D 445 - 06	23 - 30 mPa*s
Volatiles	specific method	< 1,0 wt. %
Values are documented in the certificate of analysis.		
Typical general characteristics	Inspection Method	Value
Acid number	specific method	< 0,5 mg KOH/g
Bulk density	DIN 53466	700 - 850 kg/m ³
Supply form		solid, colorless beads, odorless and tasteless
Density of the polymer	DIN EN ISO 1183 /1-3	approx. 1,18 g/cm ³
Softening point	DIN ISO 4625, by Ring and Ball	approx. 155 °C
K-value	DIN 53726	60 - 66
Molecular weight (MW)	SEC, PS-Standard	approx. 280000 g/mol
Glass transition temperature	DSC (DIN 53765 / ISO 11357-5)	approx. 44 °C