

SyNovus is a new nitrile technology offered by Synthomer. It is designed with proprietary cross-linking to optimize barrier protection performance of the final dipped gloves. With this proprietary technology, it is therefore able to be cured at much lower temperature than conventional latex and require no sulfur and accelerator.

For further information regarding this product please refer to:

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Property	Typical Value	Unit	Method ¹
Solids content	44	%	ISO 124
pH value	8.2	-	ISO 976
Viscosity	50	mPa.s	ISO 1652
Surface Tension	32	mN/m	ISO 1409
Acrylonitrile Content	High		

¹ internal method based upon the specified norm

Application Advice

SyNovus is designed for multi dipping processes with TSC below 15 %. The characteristics of fast film gelation is for better adaptability to produce low thickness articles with good film formation under typical coagulant dipping processes. Formulation as provided under starting formulation column of the following TDS.

We recommend that during compounding to use only 1% KOH for pH adjustment. The latex is more sensitive to pH adjustment and thus necessary precaution needs to be taken during KOH addition to avoid coagulation. Subsequent steps after KOH addition are as per typical conventional latex compounding except no sulfur and accelerator is needed. As typical guide formulation it is necessary to add in between 0.3 - 0.5 phr surfactant for multi dipping processes.

With no sulfur and accelerator needed during compounding it can be used for dipping directly upon completion of compounding and de-aeration process. No maturation is needed for SyNovus compound. The issue of sedimentation and latex compound changeover is expected to be simplified with less frequent downtime.

Shipping and Storage

SyNovus is supplied in road tankers or non returnable plastic drums secured by a lid with clamping or in non-returnable palletized bulk containers. Store at even temperature of between + 5 C and + 35 C avoiding frost and direct sunlight. Care must be taken that drums and storage containers are closed tightly. During processing, storage and transport of the product, contact with metals unprotected against corrosion (likewise non-ferrous metals) has to be avoided. This is a new nitrile technology and if stored according to these conditions, the latex comes with 3 months shelf life to maintain product performance.

Product Safety

Please refer to the Material Safety Data Sheet for safety and environmental information. SyNovus is not classified as dangerous according to EU Directive 1999/45/EC and does not require any special labeling.