SYNOVUS™ PLUS

SyNovus™ Plus 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 cure at lower temperature than conventional latex and requires 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	45	%	ISO 3251
pH Value	8.2	-	ISO 976
Viscosity@25°C	85	mPa.s	ISO 1652
Surface Tension	30.0	mN/m	ISO 1409
Acrylonitrile Content	High		
Density at 25°C	1.0	g/cm³	ASTM D1475

[1] internal method based upon the specified norm

Application Advice

SyNovus Plus 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 to use 1 % KOH for pH adjustment during compounding to avoid coagulation. Subsequent steps after KOH addition are as per typical conventional latex compounding except no sulfur and accelerator is needed. SyNovus Plus is stable within operating pH of 9.5 to 10.0. Better durability at pH 9.5 when cured at low vulcanization temperature. 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 deaeration process. No maturation is needed for SyNovus Plus compound. The issue of sedimentation and latex compound changeover is expected to simplify with less frequent downtime.

Shipping and Storage

SyNovus Plus 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 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 6 months shelf life to maintain product performance.

Product Safety

Please refer to the Material Safety Data Sheet for safety and environmental information.

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