Apcotex® XNB 500

CHEMICAL DESCRIPTION

Apcotex XNB 500 is a carboxylated butadiene-acrylonitrile copolymer latex used for making fabric supported industrial gloves.

It is manufactured by employing state-of-the-art emulsion polymerization technology ensuring product consistency.

Appearance	**Milky white pourable emulsion**
Emulsifying System	**Synthetic anionic**
Total Solids (%)	**44.0 ± 1.0**
pH at 25°C	**8.0 ± 1.0**
Brookfield Viscosity DV (CPS) SP.1, 60 RPM at 25°C	**100 Max.**
Surface Tension (Dynes/cm) at 25°C	**34.0 ± 3.0**
Acrylonitrile Content	**Medium**
Antioxidant	**Yes**

ADVANTAGES

- Excellent for seamless and cut & sewn gloves
- Provide high abrasion resistance
- Fast gelling for good productivity
- Low thickener demand in compound
- Excellent compound stability

STORAGE RECOMMENDATION

Store between temperatures of +5°C and +35°C.

Keep containers closed when not in use.

Protect from freezing and direct exposure to sunlight.

GUIDELINE FORMULATION & PROCESS PARAMETER FOR NITRILE SUPPORTED GLOVES

COMPOUNDED LATEX PROPERTIES

1. pH - 8.5 - 9.0
2. % N.V.M.- 44%
3. Stirring 24 hours (slow agitation)

Chemical	Phr
Nitrile Latex	**100**
KOH (3%)	**As required**
Sulphur	**1.0**
Zinc Oxide	**3.0**
ZDBC	**1.0**
TiO_2	**1.0**
PVA (10%)	**0.1 - 0.4**

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PROCESS PARAMETERS AND DIPPING PROCEDURE

Sl. No.	Steps	Parameters	Conditions
1	Fabric liner wearing in former	Former Temperature	Ambient
2	Finger dipping in latex compound	Dwell Time	2 – 4 sec
3	Dripping excess compound	Time	2 min
4	Full dip (Palm dipping in latex compound	Dwell Time	2 - 4 sec
5	Dripping excess compound	Time	5 – 10 min
6	Coagulant dipping	Coagulant Temp.	Ambient
		Dwell Time	5 sec
7	Drying - 1	Temperature	80 °C
		Time	20 min
8	Drying - 2	Temperature	110 °C
		Time	25 min
9	Curing	Temperature	125 °C
		Time	30 min
10	Stripping	Temperature	Ambient

APPLICATION PROPERTIES FOR SUPPORTED GLOVES

						Heavy	Medium
Levels	***1***	***2***	***3***	***4***	***5***	*Level*	*Level*
Abrasion resistance (Cycles)	100	500	2000	8000	N/A	4	4
Cut resistance (Index)	1.2	2.5	5	10	20	2	2
Tear resistance (Newton)	10	25	50	70	N/A	2	1
Puncture resistance (Newton)	20	60	100	150	N/A	2	1

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