



Apcotex® XNB 600

CHEMICAL DESCRIPTION

Apcotex XNB 600 is a carboxylated butadiene-acrylonitrile copolymer latex used for making unsupported industrial and household gloves by coagulant dipping process.

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

ADVANTAGES

- Excellent for making flock line industrial gloves
- Good tensile strength with flexibility
- High resistance against chemicals and oils
- Fast gelling for good productivity
- Excellent compound stability

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	40.0 ± 3.0
Acrylonitrile Content	High
Antioxidant	Yes

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 UNSUPPORTED GLOVES FOR HOUSEHOLD AND INDUSTRY

COMPOUNDED LATEX PROPERTIES

1. pH - 9.5 -9.8
2. % N.V.M.- 38-40 %
3. Stirring 24 hours (slow agitation)

Chemical	Phr
Nitrile Latex	100
KOH (3%)	0.9
Sulphur	1.0
Zinc Oxide	2.0
ZDBC	1.0
TiO₂	1.2

TDS-XNB 600-02-2022/Rev.4

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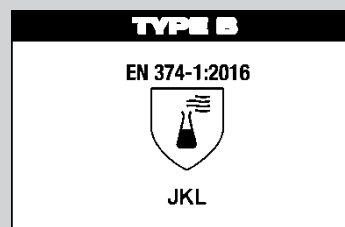
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PROCESS PARAMETERS AND DIPPING PROCEDURE

Sl. No.	Steps	Parameters	Conditions
1	Former Conditioning	Oven Temperature	80 °C
2	Coagulant Dipping (40 % Calcium nitrate)	Coagulant Temperature	60 °C
		Dwell Time	12 sec.
3	Drying	Oven Temperature	80 °C
		Time	3 min
4	Latex Dipping-1	Dwell Time (1 st Dipping)	20 sec
5	Drying	Temperature	80 °C
		Time	3 min
6	Pre-Leaching	Temperature	60 °C
		Time	1 min
7	Coagulant Dipping (40 % Calcium nitrate)	Coagulant Temperature	60 °C
		Dwell Time	12 sec.
8	Drying	Oven Temperature	80 °C
		Time	3 min
9	Latex Dipping-2	Dwell Time (2 nd Dipping)	20 sec
10	Drying	Temperature	80 °C
		Time	3 min
11	Pre-Leaching	Temperature	60 °C
		Time	1 min
12	Curing	Temperature	120 °C
		Time	30 min
13	Post Leaching	Temperature	60 °C
		Time	1 min
14	Stripping	Temperature	Ambient

CHEMICAL RESISTANCE OF GLOVES

Solvent	Time in minutes
n-Heptane (J)	350
40 % NaOH (K)	360
Conc. H ₂ SO ₄ (L)	85



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