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## **LOPROTEX LPX**

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X10D/R1/S0126

**LOPROTEX LPX** is the excellent latex concentrate preserved with ammonia. The special processed of this product enable it to have very low non-rubber and ultra low extractable protein. This high purity latex concentrate has been developed to suit most application especially in dipping industries. **LOPROTEX LPX** can be used in all vulcanizing system and it provides excellent stability and good dry film physical properties when compared to other types of deproteinised NR latex.

### **1. TYPICAL PROPERTIES**

Total Solid Content (%)	-	60.1 – 60.2
Dry Rubber content (%)	-	60.00 min.
Non-Rubber Solid (%)	-	0.20 max
Alkalinity (%)	-	0.30 max
MST @ 55% TSC (sec.)	-	2500 ± 500 min.
Volatile Fatty Acid No.	-	0.03 max
KOH No.	-	0.35 max
Magnesium Content (ppm)	-	10 max
Coagulum Content (ppm)	-	50 max
B/F Viscosity, 2/60 at 26±2 °C (cps)	-	65 - 80
pH	-	9.50 – 11.00
Specific Gravity (g/ml)	-	0.94 – 0.95

### **2. SPECIAL PROPERTIES**

#### **(a) Extractable Protein**

**LOPROTEX LPX** dry film is having ultra low extractable protein. Typical EP result is as follow;

	<b>Without leaching</b>	<b>With leaching</b>
Unvulcanise <b>LOPROTEX LPX</b>	5 – 25 ppm	6 - 9 ppm
Vulcanise <b>LOPROTEX LPX</b>	49 – 91ppm	12 – 15 ppm

*The above information is given in good faith and without liability.*

**(b) Antigenic Protein Content**

**LOPROTEX LPX** dry film is having very low antigen content. Typical result is as follow;

	<u>Antigen Content</u>
<b>LOPROTEX LPX</b>	0.9 – 1.1 ppm

**(c) Nitrogen Content**

**LOPROTEX LPX** dry film is with low total nitrogen content. Typical result is as follow;

	<u>Total Nitrogen Content</u>
<b>LOPROTEX LPX</b>	0.04 – 0.05 %

**3. APPLICATION**

**LOPROTEX LPX** is the ultra low extractable and antigenic protein and low non-rubber latex concentrate. It is suitable for all latex applications especially those that need to meet stringent requirement on low residual extractable and antigenic protein and low non-rubber solid in the finished products.

Typical formulation of **LOPROTEX LPX** in post-vulcanised system is as follows :

<b>LOPROTEX LPX</b>	100 DRC
10% potassium hydroxide	0.1 - 0.3phr
10% potassium laurate	0.1 - 0.2phr
50% sulphur dispersion	0.7 – 1.2phr
50% ZDEC/ZMBT/ZDBC dispersion	0.6 - 1.2phr
50% ZnO dispersion	0.5 - 1.0phr
50% anti-oxidant	0.5 - 1.0phr

\*\* *Extra anti-oxidant could be use to enhance the aged dry film physical properties.*

**4. TYPICAL DIPPED FILM PROPERTIES OF **LOPROTEX LPX** IN POST-VULCANISED SYSTEM**

*(TYPICAL EXAMINATION GLOVES FILM WITH THICKNESS 0.12 – 0.15mm TESTED IN ACCORDANCE WITH ASTM)*

**UNAGED (ASTMD412:1992)**

Tensile Strength (MPa)	25 - 30
Elongation at Break (%)	800 - 950
Modulus at 700% Elongation (MPa)	13 - 18

**AGED (22hrs at 100°C)–(ASTMD573:1988)**

Tensile Strength (MPa)	20 min.
Elongation at Break (%)	750 min.
Modulus at 700% Elongation (MPa)	9 min.

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**5. PACKING**

**LOPROTEX LPX** is packed in non-returnable metal drums of net weight 205kg or delivered in bulk tank.

**6. STORAGE**

It is recommended to store this product under shade without exposure to direct sunlight at temperature below 35°C but not in freezing condition. This will prevent the product from creaming and if this happen, stirring is required to re-disperse the cream.

Properly stored product should have a shelf life of 6 –12 months. Longer storage than this period is not recommended.

***LOPROTEX LPX**, the EP will increase gradually during storage. It is recommended that usage should be within 3 months from the production date. Thereafter, longer than 1 min. post leaching is necessary to achieve required EP in the finished products.*

**7. TECHNICAL SERVICE AND INFORMATION**

GETAHINDUS TECHNICAL TEAM comprises qualified and experienced personnel. All R & D works are carefully thought of and meticulously planned when developing new products and materials to suit customers' requirement. All technical information and samples for evaluation are readily available. For any enquiry, please contact our Sales & Marketing Department.

**8. HEALTH HAZARD AND SAFETY**

**LOPROTEX LPX** is an ammoniated latex concentrate. It is not to be taken. No adverse physiological reactions have been observed when handling the product correctly and using it in the way suggested.

Avoid direct contact with the skin and eyes. If latex is accidentally splashed onto the eyes, wash with plenty of running water and consult medical doctor immediately.

**Presented by Distributor:**

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