

Speciality of our product as compared with other HDPE and polyester LLINs

LONG LASTING : No fear of losing the insecticide on washing because our product uses controlled release of insecticide incorporated into the HDPE monofilaments. Very high wash resistance . Bioefficacy is high even after 25 washes.

BETTER BIOEFICACY : The insecticide (alpha-cypermethrin) used in product is a broad spectrum insecticide and is very effective against most common species of mosquitoes. Insecticidal activity is restored within 24 hours after wash.

ASSURED QUALITY : In-house testing facilities for both physical and chemical properties, and strict quality management in each and every stage of manufacturing with 3 decades experience in manufacturing HDPE mosquito nets.

READY TO USE : No chemical treatment is required.

HIGHLY COST EFFECTIVE : High durability and extended life considerably reduce the cost on personal protection against insect vectors.



GREEN PRODUCT : Product is packed in ox biodegradable plastic bags. The net (HDPE) can also be recycled.

EXTREME DURABILITY : Made of High Density Polyethylene (HDPE) monofilaments. Product uses 150 denier heavy duty HDPE yarn, much stronger than the 100 denier polyester yarn normally used by other manufacturers. Product has unsurpassed bursting strength (above 650 kPa) at the seams. Special high tenacity monofilament yarn is used for sewing.



SPECIFICATIONS:

Technical Specification for Long lasting Insecticidal Nets (LLIN's)

Mosquito Net (Insecticide Treated) for DOUBLE BED

SIZE:	Length 190 x Width 150 x Height 150 cm
MATERIAL:	100% Polyester, FDY, 36 filament.
FINISHED EDGE:	Rectangular
FABRIC:	Warp Knitted
DENIER:	60 Denier or 75 Denier
COLOR:	All Colours
WEIGHT:	30gm/sq+/- 10%
NETTING MESH SIZE:	Min. 325 holes per sq. Inch. Hexagonal Mesh.
DIMENSIONAL STABILITY:	To wash at 30 Degrees, +/-5%
BURSTING/STABILITY:	100D: 320 Kpa mini for Net & Seams.
MEASURING AREA 7.3cm ² 75D:	250kpa mini for Net & Seams, Measuring Area 7.3cm ²
FIRE STABILITY:	(16)
NET SUSPENSION:	Min. 6 Loops the Upper Corners + Middle; Min. Length 10 cm, Suspension loop material-polyester material
INSECTICIDE:	Content Deltamethrin Treatment, WHOPES recommended (Effect: Keeps away population of Mosquitoes whilst Keeping Human Beings Safe Including Children and Pregnant Women)
EFFECTIVE LIFE:	Minimum 2-4 Years, even after Washing more than 25 Times.



SPECIFICATIONS:

Mosquito NET (Insecticide Treated) for SINGLE BED

SIZE:	Length 180 x Width 105 x Height 150 cm
MATERIAL:	100% Polyester, FDY, 36 filament.
FINISHED EDGE:	Rectangular
FABRIC:	Warp Knitted
DENIER:	60 Denier or 75Denier
COLOR:	All Colours
WEIGHT:	30gm/sq +/-10%
NETTING MESH SIZE:	Min. 25 holes/sq. m; 325 holes per sq. Inch. Hexagonal Mesh.
DEMENSIONAL STABILITY:	To wash at 30 Degrees, +/-5%
BURSTING/STABILITY:	100D: 320 Kpa for Net & Seams:
MEASURING AREA: 7.3cm ² 75D:	250 kPa mini for Net & Seams; Measuring Area 7.3cm ²
FIRE STABILITY:	(16)
NET SUSPENSION:	Min. 4 Loops the Upper Corners + Middle; Min. Length 10cm, Suspension loop material-polyester material
INSECTICIDE:	Content Deltamethrin Treatment, WHOPES recommended (Effect: Keeps away population of Mosquitoes whilst keeping Human Beings safe including Children and Pregnant Women)
EFFECTIVE LIFE:	Minimum 2-4 years, even after Washing more than 25 Times.



AVAILABLE DIMENSIONS AND EXPORT PACKING

No.	Rectangular net	Area (m ²)	Approximate number of nets in	
1.	190 x 180 x 150	14.52	20' container	40' container
2.	160 x 180 x 150	13.08	10,150	21,200
3.	130 x 180 x 150	11.64	11,300	23,600
4.	100 x 180 x 150	10.20	12,500	26,600
	All sizes are subject to a tolerance of $\pm 5\%$			

THE TECHNOLOGY:

Product uses a Unique proprietary formulation, developed through research and development, to impregnate the insecticide into high density polyethylene (HDPE) filaments. Unlike polyester and treated nets that have all the insecticide coated on the surface, product has it incorporated within the HDPE filament.

THE INSECTICIDE:

The insecticide used in our product is WHO approved alpha-cypermethrin. Alpha-cypermethrin is a wide spectrum insecticide. Among the pyrethroids approved by WHO for bed nets, alpha-cypermethrin is reported to have the fastest knockdown effect especially for A. Gambia, the malaria vector, and very effective for both susceptible and resistant strains of A. Gambia, (Hougard et al Bulletin of the World Health Organization 2003;81(5);324-333). Mammalian toxicity of alpha-cypermethrin is very low. Alpha-cypermethrin is racemic mixture comprising (R) and (S) isomers of α -cyano-3 - phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate.



HOW DOES IT WORK ?

The lethal combination of high knockdown and mortality effects of the insecticide incorporated into product's filaments kills almost all mosquitoes sitting on the Net. The Net does not provide mere physical barrier to mosquitoes but gives a far better protection to people due to high bio efficacy and is 100% safe to people sleeping under it.

MORTALITY:

High mortality rate sustained even after 20 washes

DOUBLE PROTECTION: Provides both chemical and strong physical barriers.

KNOCKDOWN EFFECT: Causes knockdown of all





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.....to serve better”***

