

Appendix "B"

SPECIFICATION FOR TROCELLEN ADVANCED INSULATION
MATERIAL FOR AMBULANCE VEHICLE

Trocellen closed cell chemically Cross Linked Polyethylene (XLPE) sheet with adhesive backing soft type with advanced insulation properties.

GENERAL DESCRIPTION & MATERIAL PROPERTIES OF TROCELLEN:

FOAM DENSITY (DIN 53420)	: 33 Kgs / CU.METER (maximum)
CLOSED CELL	: > 90%
TENSILE STRENGTH (DIN 53571) – (N/mm ²)	: Length – 0.21 Mpa Width – 0.16 Mpa
ELONGATION AT BREAK (DIN 53571)	: Length – 90% Width – 105%
THERMAL CONDUCTIVITY K-VALUE (DIN 52612) Is 3346 – 1980	: 0.032 to 0.038 W/mk AT 0° C 0.034 to 0.042 W/mk AT 23° C 0.045 to 0.045 W/mk AT 40° C
THERMAL STABILITY SHRINKAGE AGEING NOT TO BE EVIDENT	: < 5%
OPERATING TEMPERATURE	: -20° C to + 95° C
WATER ABSORPTION (DIN52615)	: < 3% VOL AFTER 28 DAYS
FLXIBILITY & ELASTICITY	: Excellent
COMPRESSION SET (DIN 53572)	: Good
ODOR	: Neutral
OZONE RESISTANCE	: Good
U V WEATHER RESISTANCE	: Good
CHEMICAL RESISTANCE	: Excellent
SURFACE STRUCTURE	: Plain & smooth
COLOUR	: 733 light grey / 775 dark gray
FLAMMABILITY	: Self extinguishing (as per ASTM D 635)

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With excellent flexibility & elasticity, good compression set (DIN 53572), neutral odor, good ozone resistance & UV weather resistance, excellent chemical resistance, plain & smooth surface structure and self extinguishing flammability (as per ASTM D 635)

2. Manufacturer / supplier to submit F-2 certificate which covers,

- ▶ Microbial resistance
- ▶ Fiber erosion
- ▶ Odor emission
- ▶ Water absorption
- ▶ Fire behavior
- ▶ Flammability
- ▶ Method for fire tests on ignitability flame propagation, heat – release and smoke release.
- ▶ Determination of burning behavior of interior materials
- ▶ Smoke density and toxic component air bus directive.

3. OFMK to check density and thickness only.

4. Any other parameters manufacturer to submit self certification and warranty for two years.

SUPPLY TERMS AND CONDITIONS

1. The firm has to supply the suitable structural adhesives like MA 300 of pluxus structural adhesive.
2. Density and thickness of the material should be within the specified limits otherwise the material would be considered as rejected. The above measurable parameters will be checked on the supplies received. If the results are within +/-5% of the specified values, then the material will be accepted, otherwise the material will be sentenced as rejected.
3. Qty. per vehicle:

25mm Thickness	:	11sq meters
10mm Thickness	:	22 sq.meters