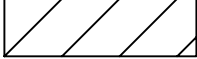


**RESEARCH DESIGN & STANDARD ORGANISATION
MANAK NAGAR, LUCKNOW-226011**

Specification for Ultra High Molecular Weight Cushion Mat

(Spec. No- MP.0.42. 00.04, September 2003)

Description & Scope- UHMW cushion mat is in two layers. The top layer is 10mm UHMW sheet adhered on 8mm thick rubber cushion with nitrile rubber adhesive. This mat is used for Token Pick-up arrangement.

A  UHMW Sheet

B  Rubber Cushion

UHMW Sheet

Typical Properties

<u>Description</u>	<u>Characteristics</u>
Molecular Weight	4.5 million
Density	0.935 Gram / cm ³
Volatile Matter	0.15 % max.
Particle size, minus No 20 mesh sieve	98 % min
Izod Impact wrench	shall not break
Notched Impact strength	90 - 100 KJ/m ²
Break Strength	32 – 35 Mpa
Break Elongation	250 – 300 %
Bulk Density	0.35 – 0.38 Gram / cm ³

Rubber Cushion

Base material should be with low water / oil absorption, excellent resilience, good impact sound deadening & good weathering resistance properties.

The manufacturer should give the typical value.

Marking

The following details shall be marked legibly.

- i. Manufacturer's initial / Trade mark
- ii. Batch no.
- iii. Year of manufacturing

Packing

The material shall be suitably packed to avoid distortion, damage etc. during transit.