

Supply of Dia 3 mm retro-reflective target tape rolls**1. Scope of work**

Retro-reflective target tape rolls are consumables of High accuracy Close Range Photogrammetry system used for the dimensional inspection of large volume components. Properties of Retro-reflective target is having a vital role to ensure the accuracy of the measurement. The properties include thickness, colour and texture of masking tape, uniformity of surfaces (wrinkle free) and life span of the adhesive used in the masking tape.

2. Target type

Sl. No.	Name of item	Qty.
1.	Type-1 Dia 3 mm retro-reflective target tape rolls (Size : Width 10 mm and pitch 10 mm) Refer sketch	20 rolls
2.	Type-2 Dia 3 mm retro-reflective target tape rolls (Size: Width 10 mm and pitch 6 mm – 3 nos. pattern) Refer sketch	6 rolls
3	Type-3 Dia 3 mm retro-reflective target tape rolls (Size: Width 10 mm and pitch 6 mm – 2 nos. pattern) Refer sketch	10 rolls
4	Type-4 Dia 3 mm retro-reflective target tape rolls (Size: Width 12 mm and 2 row staggered pattern) Refer sketch	8 rolls

3. Specification of target tapes

Sl. No.	Specification
1	Tape length of a roll - 40 m approx.
2	Diameter of a roll – 200 mm maximum
3	Tape roll with three layers (vinyl sheet + retroreflective sheet + release liner) stacked one over the other in the mentioned order. Vinyl sheet need to have circular cut-outs, exposing the retroreflective sheet in respective locations.
4	Each tape should be wounded individually over a suitable spool for easy unwinding and safe transport & storage.

4. Technical specification of masking tape to be used

Sl. No.	Parameter	Specification
1	Material	Vinyl sheet with release liner
2	Colour	Black
3	Texture	Matt finish
4	Adhesive type	Acrylic
5	Circularity of holes	<0.02 mm
6	Thickness	0.06 to 0.12 mm
7	Masking tape should be properly adhered to the retro-reflective sheet without wrinkles and air entrapment	

5. FIM (retro-reflective sheet) supplied by VSSC

Sl. No.	Parameter	Specification
1	Length	40 m approx..
2	Width	0.60 m
3	Thickness	0.126 ±0.01 mm
4	Retro-reflective sheet will be wounded over a spool with adhesive back up	
5	Since the FIM is very sensitive to light, temperature and humidity, it should be safely transported and stored in a controlled environment.	

6. Terms and conditions

- a. **The vendor has to provide bank guarantee equivalent to the value of Free issue material.**
- b. Party should maintain the record of FIM consumed and if balance material is available, that should be returned to VSSC.
- c. FIM record may be verified by VSSC personnel at any stage of realization.
- d. Item should be supplied by the party in batches according to the delivery schedule in the PO.
- e. Payment shall be made against each batch on receipt of the invoice corresponding to the particular batch, based on the certification from CPMD for the satisfactory supply.
- f. Certification will be based on compatibility (functionality) test conducted on Close Range Photogrammetry system available at VSSC.
- g. Design and fabrication cost of any machines and fixture arrangements required for the realization should be embedded in the cost of individual items.
- h. Detailed technical document on proposed realization process and associated milestones should be submitted which will be reviewed by VSSC for the qualification of the offers.
- i. Submitted offers should be complete, relevant, should contain technical merit and cost effective.
- j. Offers not meeting the above clauses (clause no. h & i) shall be summarily rejected.

