

Table No. 6 Onsite Testing for the Reflective Sheeting:

Sr. No.	Materials	Code of Practice	Onsite / Laboratory	Name of Laboratory Test	Reference Table							Frequency of Test																																																																			
1	2	3	4	5	6							7																																																																			
Retro Reflective Sheeting for the Signage	IRC 67: 2012; ASTM D-4956	On Site Testing with Reflectometer make: Delta, Zehntner, Roadvista – complying to ASTM D 4956	Coefficient of Retro Reflection	Class-B Type IV High Intensity Grade																																																																											
				Class-C Type XI Micro Prismatic Grade																																																																											
				<table><thead><tr><th>Agngle Observation</th><th>Entrance Angle</th><th>White</th><th>Yellow</th><th>GreenBlue</th><th>Red</th><th>Blue</th></tr></thead><tbody><tr><td>0.1°<sub>B</sub></td><td>-4°</td><td>830</td><td>620</td><td>83</td><td>125</td><td>37</td></tr><tr><td>0.1°<sub>B</sub></td><td>+30°</td><td>325</td><td>245</td><td>33</td><td>50</td><td>15</td></tr><tr><td>0.2°</td><td>-4°</td><td>580</td><td>435</td><td>58</td><td>87</td><td>26</td></tr><tr><td>0.2°</td><td>+30°</td><td>220</td><td>165</td><td>22</td><td>33</td><td>10</td></tr><tr><td>0.5°</td><td>-4°</td><td>420</td><td>315</td><td>42</td><td>63</td><td>19</td></tr><tr><td>0.5°</td><td>+30°</td><td>150</td><td>110</td><td>15</td><td>23</td><td>7</td></tr><tr><td>1.0°</td><td>-4°</td><td>120</td><td>90</td><td>12</td><td>18</td><td>5</td></tr><tr><td>1.0°</td><td>+30°</td><td>45</td><td>34</td><td>5</td><td>7</td><td>2</td></tr></tbody></table>													Agngle Observation	Entrance Angle	White	Yellow	GreenBlue	Red	Blue	0.1° <sub>B</sub>	-4°	830	620	83	125	37	0.1° <sub>B</sub>	+30°	325	245	33	50	15	0.2°	-4°	580	435	58	87	26	0.2°	+30°	220	165	22	33	10	0.5°	-4°	420	315	42	63	19	0.5°	+30°	150	110	15	23	7	1.0°	-4°	120	90	12	18	5	1.0°	+30°	45	34	5	7	2
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				Note: IF the above values are not met then the Boards should be rejected.																																																																											
				3 Readings for 10 Boards for each colour																																																																											

**5.7.3 The contractor/convertor/applicator should follow following Test schedule for each bid / project**  
**(કોન્ટ્રાક્ટરે બીડેના દરેક સમયપત્રકનું પાલન કરવાનું રહેશે.)**

**[Government letter: SOR/1018/715/Part File/C-1 Dtd. 4-11-2019]**

Sr. No.	Materials	Code of Practice	Onsite / Laboratory	Name of Laboratory Test	Reference Table								Frequency of Test
1	2	3	4	5	6								7
1	Road/Stu ds /Cat eyes / RPM (Raised Pavement Marker)	IRC 35:2015 ; ASTM D4280	Laboratory Testing	Compressive Strength	Compressive Strength (Breaking load) - 13635kgf without breakage								1 Sample for each colour per lot/bran d
		IRC 35: 2015; ASTM D4280	Laboratory Testing	Flexural Strength	909kgf without breakage or significant deformation (3.3mm)								1 Sample for each colour
		IRC 35:2015 ; ASTM D4280	Laboratory Testing	Resistance to Lens Cracking, Lens Impact Strength	No More than 2 radial cracks longer than 6.4mm								1 Sample for each Colour
		IRC 35: 2015; ASTM D4280	Laboratory Testing	Co-efficient of Luminous Intensity - ASTM D4280	Co-efficient of Luminous Intensity (C.I.L)								1 Sample for each Colour
					Observation Angle	Entrance Anhle	White	Yellow	Red				
					0.2	0	279	167	70				
					0.2	+20	112	67	28				
					0.2	-20	112	67	28				



Sr No	Materials	Code of Practice	Onsite / Laboratory	Name of Laboratory Test	Reference Table				Frequency of Test
1	Hot Applied Thermoplastic Road Marking	IRC 35: 2015; Section 800 of MORTH	On Site Testing with Reflectometer	(RL) Retro Reflectivity (mcd/ m 2/lux	Retro Reflectivity (mcd/ m2/ lux				5 Readings for every 5 Kilometres
1		IRC 35:2015; Section 800 of MORTH	Laboratory Testing	Proportions of Constituents of Marking Material	Refer Table 2.1 above.				1 sample for each colour
					1} <b>Titanium Dioxide</b> min 10%				
					2} <b>Intermix Glass Beads</b> min 30% & Gradation				
					3} <b>Binder</b> min 18%				
		IRC 35:2015; Section 800 of MORTH	On Site Testing	Skid Resistance	Not less than 45 BPN (British Pendulum Number) as per BS:6044				5 Readings for every 5 Kilometres