



NATURAL AND ARTIFICIAL FIBRE THERMOSET COMPOSITE NAFTC

Specification : RDSO/2016/CG-2

| S.I. No. | Properties | Unit | Observed Values | Test Method |
|-----------------------------------|------------------------------------------|-------------------|-----------------|-------------|
| 1 | Physical Appearance | ---- | Smooth | Visual |
| 2 | Density | g/cc | 1.5 ± 0.2 | APPENDIX A |
| 3 | Water Absorption | % | 2.5 | APPENDIX F |
| 4 | Tensile Strength - Direction A | Mpa | 80 | APPENDIX B |
| 5 | Tensile Strength - Direction B | Mpa | 60 | APPENDIX B |
| 6 | Breaking Strength - Direction A | Kg | 19 | APPENDIX C |
| 7 | Breaking Strength - Direction B | Kg | 17 | APPENDIX C |
| 8 | Drop Impact Test | -- | Passes | APPENDIX D |
| 9 | Flexibility | -- | Passes | APPENDIX E |
| Fire Worthiness Properties | | | | |
| 10 | Resistance to Spread of Fire | -- | Class A | UIC 564-2 |
| 11 | Deterioration of Visibility due to smoke | -- | Class A | UIC 564-2 |
| 12 | Limiting Oxygen index | % | 36 | IS 13360 |
| 13 | Toxicity Test | -- | Less than 1.0 | NCD 1409 |
| 14 | Heat Release Rate (MARHE) | KW/m ² | R1 (HL3) | ISO 5660-1 |

