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Abstract : This report presents the mechanical properties of carbon epoxy composites which were established for use in the design of 1:1.405 scale LCA high speed air intake model. The carbon fabrics and resin used in impregnation of specimens were G803W 5H satin weave and G807 8H satin weave supplied by M/s Brochier SA France, and Epoxy LY556 with Hardner HY951 supplied by CIBA (India). The mechanical properties evaluated included tensile strength, tensile modulus and horizontal shear strength (short beam method). The effect of post curing at 70°C was also studied.