

Abstract

NON-METALLIC TWIST TIE

The present invention provides a nonmetallic twist tie in which the function inherent to the twist tie is of course available and the twist tie is easily made into a shape of being wound in a bundle with no slipping down of the tie into gap, no torsion of the tie itself, no curl, no twining and tangling of ties and no loosening or disjoining from a reel whereby its drawing-out from the wound shape is able to be carried out smoothly. The nonmetallic twist tie having a core part and a wing part constituted from a non-halogenous material is characterized in that (1) a shape having a total width is 1.5 to 20.0 mm, the average thickness of the wing part is 0.02 to 0.20 mm and the maximum thickness of the core part is 0.04- to 0.30-fold of the total width, (2) a binding property where a torsion strength is 5.0 to 15 N, (3) a rigidity where a tensile elasticity is 5,000 to 30,000 Mpa, (4) a property of forming a fixed shape where the property is 90% or more and a property of retaining a fixed shape where the rate of retaining the fixed shape is 70 to 95%, and (5) a drawing-out property where a degree of curving to the drawing-out direction is 10° or less and a curl radius to the winding direction retains the range of 50 to 200 mm.

Figure 1