Claims

1. A conveying pipe part (2) of a pneumatic material conveying system, more particularly of a conveying system for wastes, which conveying pipe part comprises a wall, which is formed from at least two layers, at least the first one of which is a plastic material layer (12) and extends to the outer surface of the pipe part (2), c h a r a c t e r i z e d in that the plastic material layer (12) is of plastic material or of plastic composite material, and in that the wall of the pipe part (2) comprises a second layer, a reinforcement part (8), which reinforcement part is preferably a tubular part, and arranged slidingly in the wall of the pipe part (2) at a distance inwards from the outer surface, and that the reinforcement part (8) is in its thickness less than about 50% of the thickness of the wall of the pipe part (2).

2. A pipe part according to claim 1, c h a r a c t e r i z e d in that the reinforcement part (8) is a tubular metal part.

3. A pipe part according to claim 1 or 2, c h a r a c t e r i z e d in that the reinforcement part (8) is in its thickness less than ½ (50%) of the thickness of the wall of the pipe part (2), preferably 1/10 - ¼ (10 - 25%) of the thickness of the wall of the pipe part (2).

4. A pipe part according to any of claims 1 - 3, c h a r a c t e r i z e d in that the reinforcement part (8) is of steel, preferably of wear-resistant steel.

5. A pipe part according to any of claims 1 - 4, c h a r a c t e r i z e d in that the inside surface of the reinforcement part (8) is the inside surface (9) of the pipe part (2).

6. A pipe part according to any of claims 1 - 5, c h a r a c t e r i z e d in that the reinforcement part (8) enables the bending of the pipe part (2) and the essential retention of the bent shape.

7. A pipe part according to any of claims 1 – 6, c h a r a c t e r i z e d in that the pipe part (2) can be joined end-to-end to a second pipe part (3) by joining the plastic material layers (12, 13) of the pipe parts together or to the sleeve part (4), most preferably by plastic welding or by gluing.

8. A pipe part according to any of claims 1 – 7, c h a r a c t e r i z e d in that the reinforcement part (8) is arranged slidingly inside the tubular plastic material part (12).

9. Method for forming a pipe joint of the conveying piping of a pneumatic material conveying system, more particularly of a conveying system for wastes, between the first pipe part (2) and the second pipe part (3), which pipe parts (2, 3) are joined end-to-end and against each other, and at least one of which conveying pipe parts (2, 3) comprises a wall, which is formed from at least two layers, at least the first one of which is a plastic material layer (12) and extends to the outer surface of the pipe part (2) and the second pipe part is formed wholly or at least partially from the plastic material layer extending to the outer surface,
c h a r a c t e r i z e d in that the wall of at least one pipe part (2) comprises a second layer, a reinforcement part (8), which reinforcement part is preferably a tubular metal part, and arranged slidingly in the wall of the pipe part (2) at a distance inwards from the outer surface, and in that the pipe parts are joined to each other by joining the plastic material layers (12, 13) with plastic welding directly to each other, or with plastic welding or gluing to the sleeve part (4) arranged in the joint area.

10. Method according to claim 9, c h a r a c t e r i z e d in that at least the pipe part (2) comprising the reinforcement part (8) is bent into the desired shape before the forming of the joint or after the forming of the joint, most preferably at the installation site or in the proximity of it.

11. Method according to claim 9 or 10, c h a r a c t e r i z e d in that in the method the wall of the second of the pipe parts (2, 3) is purely of plastic material or of plastic composite material.

12. Method according to claim 9 or 10, c h a r a c t e r i z e d in that the walls of both pipe parts (2, 3) to be joined comprise both a plastic material part (12, 13) and a reinforcement part (8, 20).