CLAIMS

1. An endless track for a track system, the endless track engageable with a wheel of the track system, the endless track comprising:

a polymeric carcass including:

an outer portion with an outer surface for contacting a ground surface; and

an inner portion with an inner surface opposite to the outer surface,

the outer portion having a first driving zone adjacent a first wheel path zone, the first wheel path zone adjacent a guiding zone, the guiding zone adjacent a second wheel path zone, the second wheel path zone adjacent a second driving zone;

a plurality of driving lugs configured to engage the wheel and disposed in the first and the second driving zones; the plurality of driving lugs extending radially inwardly from the inner surface and being longitudinally spaced from one another along the inner surface,

the guiding zone comprising a plurality of members disposed in the carcass, the plurality of members extending laterally in the inner portion of the carcass and being longitudinally spaced from one another along the carcass,

a given member from the plurality of members having:

a guiding portion configured to engage the wheel and extending radially inwardly from the inner surface of the inner portion of the carcass, and

a reinforcing portion located in the inner portion of the carcass and extending laterally between at least the first driving lug and at least the second driving lug, the reinforcing portion configured to reinforce the inner portion of the carcass and support weight of the wheel;

the guiding zone having a width, the width of the guiding zone being half or less than half a width of the first driving zone and being zone being half or less than half a width of the second driving zone.

2. The endless track of claim 1, wherein the given member is a T-shaped member.

3. The endless track of claim 1 or claim 2, wherein the guiding portion and the reinforcing portion are integrally formed.

4. The endless track of any one of claims 1 to 3, wherein the given member is made from a rigid material.

5. The endless track of any one of claims 1 to 4, wherein the plurality of members is a plurality of first members, the endless track further including:

at least one second member configured to reinforce the carcass, the at least one second member extending in the inner portion of the carcass longitudinally along a length of the carcass and about the plurality of first members, such that the reinforcing portion is located between the inner surface of the inner portion and the at least one second member.

6. The endless track of claim 5, wherein the at least one second member is a plurality of second members arranged into at least one layer of second members.

7. The endless track of claim 6, wherein the at least one layer of second members is a layer of reinforcing cords.

8. The endless track of any one of claims 1 to 7, wherein the carcass further includes a guiding lug for guiding the wheel and disposed on the inner surface between the first driving lug and the second driving lug, the guiding portion extending into the guiding lug.

9. The endless track of claim 8, wherein the inner surface defines a wheel path located laterally between the first driving lug and the guiding lug, the wheel path configured to engage the wheel, the wheel path has a first width on the inner surface of the inner portion, the guiding lug having a second width on the inner surface of the inner portion, the first driving lug having a third width, and the carcass having a fourth width.

10. The endless track of claim 9, wherein the first width is between 120 mm and 155 mm.

11. The endless track of claim 9, wherein the second width is between 20 mm and 80 mm.

12. The endless track of claim 9, wherein a ratio of the second width over the first width is between 0.22 and 0.35.

13. The endless track of claim 9, wherein a ratio of the second width over the fourth width is between 0.06 and 0.08.

14. The endless track of claim 9, wherein a ratio of the first width over the fourth width is between 0.21 and 0.28.

15. The endless track of claim 9, wherein a ratio of the third width over the fourth width is between 0.21 and 0.19.

16. The endless track of any one of claims 1 to 15, wherein the endless track further includes a plurality of non-linear outer lugs extending radially outwardly from the outer surface of the outer portion and longitudinally spaced from one another along the outer surface.

17. The endless track of claim 16, the plurality of non-linear lugs includes a first non-linear outer lug having a non-linear section extending laterally between the first and second lateral surfaces.

18. The endless track of claim 17, wherein the first non-linear outer lug further includes at least one linear section disposed proximate to at least one of the first and second lateral surfaces.

19. The endless track of claim 18, wherein the at least one linear section includes a first linear section and a second linear section, the first linear section disposed proximate to one of the first and second lateral surfaces and the second linear section disposed proximate to the other one of the first and second lateral surfaces.

20. The endless track of any one of claims 16 to 19, wherein the plurality of non-linear lugs defines a bi-directional pattern.