# CLAIMS

1. An energy absorber for an impact absorbing wall crushing comprising an olefin-based resin composition obtained by mixing an olefin resin, a polyamide resin, and an elastomer having reactive group that reacts with the polyamide resin, wherein
when a total of the olefin resin, the polyamide resin, and the elastomer is taken as 100% by mass, the ratios of the olefin resin, the polyamide resin, and the elastomer may be 2 to 90% by mass, 1 to 75% by mass, and 1 to 60% by mass, wherein
the olefin-based resin composition has a continuous phase containing the olefin resin, and a polyamide resin-based dispersed phase dispersed in the continuous phase, and
the polyamide resin-based dispersed phase has a structure in which the elastomer is contained in a matrix phase containing the polyamide resin, which has an impact absorbing frame having an impact absorbing wall whose plane direction is along a direction in which an impact load is applied, wherein the impact absorbing wall is collapsed when subjected to the impact load to absorb an impact.

2. The energy absorber for an impact absorbing wall crushing according to claim 1, wherein when a total of the olefin resin, the polyamide resin and the elastomer is taken as 100% by mass, the ratios of the olefin resin, the polyamide resin, the elastomer is 35 to 70% by mass, 10 to 45% by mass, and the 15 to 35% by mass.

3. The energy absorber for an impact absorbing wall crushing according to claim 1 or 2, wherein when a total of the polyamide resin in the polyamide resin-based dispersed phase and the elastomer is taken as 100% by mass, the ratios of the elastomer in the polyamide resin-based dispersed phase is 36 to 60% by mass.

4. The energy absorber for an impact absorbing wall crushing according to any of claims 1 to 3, wherein the olefin-based resin composition is present between the continuous phase and the polyamide resin-based dispersed phase, having an interfacial phase containing the elastomer, whose elongation at break is 150 to 350%.

5. The energy absorber for an impact absorbing wall crushing according to any of claims 1 to 5, wherein the impact absorbing frame has tubular hollow portions surrounded by the impact absorbing wall.

6. The energy absorber for an impact absorbing wall crushing according to claim 5, wherein the impact absorbing frame has a honeycomb structure having two or more of the tubular hollow portions.

7. The energy absorber for an impact absorbing wall crushing according to claim 5 or 6, wherein the impact absorbing wall is founded on the other wall and is integrally molded with the other wall, having the other wall to cover one end side of said hollow portions.

8. The energy absorber for an impact absorbing wall crushing according to any one of claims 1 to 7, wherein the impact absorbing wall may have thickness of 1 to 10 mm.

9. The energy absorber for an impact absorbing wall crushing according to any one of claims 1to 8, which has a foaming molded body.

10. The energy absorber for an impact absorbing wall crushing according to any one of claims 1 to 9, which is an energy absorber for vehicles.