SYSTEC V-Series. Water was used as the pressure transmitting fluid. First, the filled pouches were preheated to an initial temperature of 100 °C prior to pressure sterilization. After that, the temperature and pressure were increased to 121 °C and 2.2 MPa, respectively, and held for 30 min to 35 min at this condition. Different conditions from that mentioned above may be used depending on factors such as food type and pouch size. Generally, in retort pouch packaging, free space that is available in the packaging is controlled so as to optimize pressure within the packaging. After sterilization process at controlled temperature and pressure, the filled pouches were cooled, and pressure in the autoclave was released. The filled pouches were taken out from the chamber, and tested for general appearance, leakage at seal area, and seal strength after retort process.

[0073] **Example 2: Preparation of the polypropylene composition**

[0074] All starting materials were commercially available.

[0075] Homopolypropylene (hPP) had MFR of 2.5 g/10 min at 230 °C, weight of 2.16 kg and molecular weight distribution of 7.5 g/mol, and density of 0.910 g/cm^3. Random copolymer polypropylene (rPP) comprised 3 mol% ethylene unit and had a density of 0.910 g/cm^3. Propylene-ethylene copolymer comprised isotactic polypropylene with 16 wt% randomly distributed ethylene unit.

[0076] The homopolypropylene, random copolymer polypropylene and propylene-ethylene copolymer were blended at various ratios as shown in **Table 1** by using a twin screw extruder.

[0077] The obtained blended polypropylene composition was shaped into a film with 70 μm thickness by co-extrusion process. The films obtained from the polypropylene compositions were then analyzed as described above. The results are shown in **Table 1**.

[0078] **Table 1:** The compositions and properties of Comparative Sample 1A, and Samples 2A to 6A

Sample	hPP (wt%)	rPP (wt%)	Propylene-ethylene copolymer (wt%)	Tensile strength at yield (kg/cm^2)	Tensile strength at break (kg/cm^2)	Elongation at break (%)	2% Secant modulus (kg/cm^2)
Comparative Sample 1A	80	10	10	206	202	569	2400
Sample 2A	70	15	15	166	167	399	2826
Sample 3A	65	20	15	166	182	477	3791
Sample 4A	60	25	15	168	287	726	3633
Sample 5A	65	15	20	152	261	664	3423
Sample 6A	60	15	25	138	244	676	2953

CLAIMS

1. A polypropylene composition comprising
   (a) 50 wt% to 76 wt% of homopolypropylene;
   (b) 12 wt% to 25 wt% random copolymer polypropylene having 2 mol% to 10 mol% ethylene derived units; and
   (c) 12 wt% to 25 wt% propylene-ethylene copolymer having 10 wt% to 25 wt% ethylene derived units and a melt flow rate of 2.5 g/10 min to 15 g/10 min at 230 °C, 2.16 kg according to ASTM D 1238-13.

2. The polypropylene composition according to claim 1, wherein the homopolypropylene, the random copolymer polypropylene, and the propylene-ethylene copolymer in the polypropylene composition add up to 100 wt%.

3. The polypropylene composition according to claim 1 or 2, wherein the random copolymer polypropylene comprises at least 50 wt% propylene derived units.

4. The polypropylene composition according to any one of claims 1 to 3, wherein the random copolymer polypropylene has 2 mol % to 5 mol % ethylene derived units.

5. The polypropylene composition according to any one of claims 1 to 4, wherein the random copolymer polypropylene is present at an amount of 25 wt%.

6. The polypropylene composition according to any one of claims 1 to 5, wherein the propylene-ethylene copolymer comprises at least 50 wt% propylene derived units.

7. The polypropylene composition according to any one of claims 1 to 6, wherein the propylene-ethylene copolymer has 15 wt% to 20 wt% ethylene derived units.

8. The polypropylene composition according to any one of claims 1 to 7, wherein the propylene-ethylene copolymer is present at an amount of 20 wt% to 25 wt%.

9. The polypropylene composition according to any one of claims 1 to 8, wherein the homopolypropylene has a melt flow rate of 1 g/10 min to 10 g/10 min at 230 °C, 2.16 kg according to ASTM D 1238-13.

10. The polypropylene composition according to any one of claims 1 to 9, wherein the homopolypropylene has a molecular weight distribution in the range of 4 g/mol to 15 g/mol.

11. The polypropylene composition according to any one of claims 1 to 10, wherein the composition has a melt flow rate of 0.1 g/10 min to 4.0 g/10 min at 230 °C, 2.16 kg according to ASTM D 1238-13.

12. The polypropylene composition according to any one of claims 1 to 11, wherein components (a), (b) and (c) have a melting point in the range of 145 °C to 165 °C.

13. A method to produce a shaped article, the method comprising providing a polypropylene composition comprising 50 wt% to 76 wt% of homopolypropylene; 12 wt% to 25 wt% random copolymer polypropylene having 2 mol% to 10 mol% ethylene derived units; and 12 wt% to 25 wt% propylene-ethylene copolymer having 10 wt% to 25 wt% ethylene derived units and a melt flow rate of 2.5 g/10 min to 15 g/10 min at 230 °C, 2.16 kg according to ASTM D 1238-13; and shaping the polypropylene composition into a shaped article.

14. A shaped article comprising a polypropylene composition comprising 50 wt% to 76 wt% of homopolypropylene; 12 wt% to 25 wt% random copolymer polypropylene having 2 mol% to 10 mol% ethylene derived units; and 12 wt% to 25 wt% propylene-ethylene copolymer having 10 wt% to 25 wt% ethylene derived units and a melt flow rate of 2.5 g/10 min to 15 g/10 min at 230 °C, 2.16 kg according to ASTM D 1238-13.

15. The shaped article according to claim 13 or 14, wherein the shaped article is a single layer film or a single layer sheet.

16. The shaped article according to claim 13 or 14, wherein the shaped article is one or more sheets of a multi-layer film or a multi-layer sheet.

17. The shaped article according to claim 16, wherein the multi-layer film or multi-layer sheet defines a pouch or a bag.

18. The shaped article according to any one of claims 13 to 17, having a seal strength of at least 15 N/15mm at a seal initiation temperature of 165 °C.

19. Use of the shaped article according to any one of claims 13 to 18 in retort packaging application.