

| Item                                            | Test Method    |                    | Unit    | AR-1040               | AR-1050 | AR-1060<br>(※3) |
|-------------------------------------------------|----------------|--------------------|---------|-----------------------|---------|-----------------|
|                                                 | Characteristic |                    |         |                       |         |                 |
| Hardness                                        | JIS K 6253     | typeA              | point   | 40                    | 50      | 60              |
| Specific Gravity                                | JIS K 7112     |                    | -       | 1.12                  | 1.15    | 1.15            |
| Melt Flow Rate                                  | ASTM D 1238    | 230℃×49N           | g/10min | 1                     | 2       | 2               |
| Tensile strength                                | JIS K 6251     |                    | MPa     | 4.6                   | 6.1     | 7.2             |
| 300%Modulus                                     | 〃              |                    | 〃       | 3.3                   | 3.8     | 5.4             |
| Elongation                                      | 〃              |                    | %       | 420                   | 510     | 450             |
| Tear Strength                                   | JIS K 6252     |                    | kN/m    | 12                    | 15      | 17              |
| Rebound resilience                              | JIS K 6255     |                    | %       | 47                    | 47      | 39              |
| Taber abrasion Test                             | JIS K 6264     | H22×9.8N×1000Cycle | mg      | 1029                  | 718     | 550             |
| Compression Set                                 | JIS K 6262     | 23℃×24hr           | %       | 10                    | 10      | 12              |
|                                                 |                | 70℃×24hr           | 〃       | 12                    | 12      | 21              |
|                                                 |                | 100℃×24hr          | 〃       | 23                    | 25      | 26              |
| Softening Temperature                           | our method ※1  |                    | ℃       | 97                    | 100     | 128             |
| Brittleness Temperature                         | JIS K 7216     |                    | 〃       | <-50                  |         |                 |
| Weather resistance                              | -              |                    | -       | ◎                     |         |                 |
| Mold Shrinkage<br>(Vertical/Flowing directions) | our method ※2  |                    | %       | 0.4/3.1               | 0.3/2.8 | 0.5/2.3         |
| Molding Method                                  | -              |                    | -       | Injection ・ Extrusion |         |                 |
| Drying                                          | -              |                    | -       | unnecessary           |         |                 |
| Color                                           | -              |                    | -       | Black                 |         |                 |
| Fusion strength                                 | our method     | PP                 | -       | ○                     | ○       | ○               |
|                                                 |                | ABS                | -       | ×                     | ×       | ×               |
|                                                 |                | PC                 | -       | ×                     | ×       | ×               |
|                                                 |                | PET                | -       | ×                     | ×       | ×               |
|                                                 |                | 6Ny(PA)            | -       | ×                     | ×       | ×               |
|                                                 |                | PBT                | -       | ×                     | ×       | ×               |
|                                                 |                | POM                | -       | ×                     | ×       | ×               |
|                                                 |                | PVC                | -       | ×                     | ×       | ×               |
| Flame Retardance                                | UL-94          |                    | -       | HB                    | HB      | HB              |

The values shown in the table are representative ones and not guaranteed.  
The figures in the table are subject to change without notice.  
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※1 Softening temperature measurement method: Vicat softening temperature (at temperature rise rate of 50℃/hour and load of 2.5N) was determined with a needle inserted by 1mm.  
※2 Shrinkage : A film gate sheet (126mm x 126mm x 2mm) was formed (at mold temperature of 40℃ and cooling period of 40 seconds) .

※3 This is a grade that is made to order and sold.