

## General specifications

|                    |                                                 |              |       |
|--------------------|-------------------------------------------------|--------------|-------|
| <b>Material</b>    | HIPS                                            | <b>Grade</b> | G6211 |
| <b>Producer</b>    | Rata shomal Recycling Industries Company        |              |       |
| <b>Application</b> | Disposable container , Decorative , Electronics |              |       |
| <b>Color</b>       | White                                           |              |       |
| <b>Apearance</b>   | Granule                                         |              |       |

## Technical specification

|            | item                                         | unit               | value | Test Method  |
|------------|----------------------------------------------|--------------------|-------|--------------|
| Physical   | <b>ASH CONTENT</b><br>(600°C, 30min)         | %                  | 10    | ASTM D5630   |
|            | <b>Density</b>                               | gr/cm <sup>3</sup> | 1.04  | ASTM D1505   |
|            | <b>MFI</b><br>(200°C, 5kg)                   | gr/10 min          | 5     | ASTM D1238   |
| Mechanical | <b>HARDNESS</b><br>(5sec/23°C)               | Shore D            | 51    | ASTM D2240   |
|            | <b>Tensile stress @ yield</b><br>(200mm/min) | Mpa                | 13    | ASTM D638    |
|            | <b>Tensile stress @ break</b><br>(200mm/min) | Mpa                | 12    | ASTM D638    |
|            | <b>Elongation @ break</b><br>(200mm/min)     | %                  | 31    | ASTM D638    |
|            | <b>Tensile modulus</b><br>(1mm/min)          | Mpa                | 1700  | ASTM D638    |
|            | <b>Impact</b><br>(izod 23°C)                 | kJ/m <sup>2</sup>  | 7     | ASTM D256-10 |
| Thermal    | <b>Melt point ( DSC )</b>                    | °C                 | 221   | ASTM D3418   |
|            | <b>Vicat softening point</b>                 | °C                 | 92    | ASTM D648    |