



## Plastics and Resins

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|                                       |                                                                                                                                                                                                                                                                                                   |                                |         |                  |             |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------|------------------|-------------|
| Product Name:                         | Special polypropylene for toothbrush handle                                                                                                                                                                                                                                                       |                                |         |                  |             |
| Trade Mark:                           | Sanren Brand                                                                                                                                                                                                                                                                                      |                                |         |                  |             |
| Alternative Name:                     |                                                                                                                                                                                                                                                                                                   |                                |         |                  |             |
| Molecular formula/Structural Formula: | □                                                                                                                                                                                                                                                                                                 |                                |         |                  |             |
| Production Process:                   | The product is blend-modified polypropylene resin manufactured through modification and extrusion/pelleting of polypropylen resin.                                                                                                                                                                |                                |         |                  |             |
| Properties:                           | The product is pellet in the shape of cylinder with two kinds of colour, one is ivory white(TB 500) and another is transparent(TB 500T).It has excellent impact strength, bending strength and gloss, good processability, dyeability and chemical stability.                                     |                                |         |                  |             |
| Grade:                                |                                                                                                                                                                                                                                                                                                   |                                |         |                  |             |
| National Standard Grade:              |                                                                                                                                                                                                                                                                                                   |                                |         |                  |             |
| Enterprise Standard Grade:            | TB 500,TB 500T                                                                                                                                                                                                                                                                                    |                                |         |                  |             |
| Specifications:                       | Q/SH 012.07.12-1999 Special Polypropylene for toothbrush handle                                                                                                                                                                                                                                   |                                |         |                  |             |
|                                       | No.                                                                                                                                                                                                                                                                                               | Item                           | Unit    | Quality Criteria |             |
|                                       |                                                                                                                                                                                                                                                                                                   |                                |         | TB500            | TB500T      |
|                                       |                                                                                                                                                                                                                                                                                                   |                                |         | Testing Method   |             |
|                                       | 1                                                                                                                                                                                                                                                                                                 | Melt flow rate                 | g/10min | 5.0(+/-1.0)      | 5.0(+/-1.0) |
|                                       | 2                                                                                                                                                                                                                                                                                                 | Tensile yield strength         | Mpa >=  | 35               | 35          |
|                                       | 3                                                                                                                                                                                                                                                                                                 | Bending modulus                | MPa >=  | 1200             | 1200        |
|                                       | 4                                                                                                                                                                                                                                                                                                 | Outrigger impact strength(23ℓ) | U/m >=  | 30               | 40          |
| Scope of Application:                 | Toothbrush handle and various kinds of impact and gloss injection mouldings.                                                                                                                                                                                                                      |                                |         |                  |             |
| Major Applications:                   |                                                                                                                                                                                                                                                                                                   |                                |         |                  |             |
| Process Method:                       | Extrusion or injection moulding                                                                                                                                                                                                                                                                   |                                |         |                  |             |
| Packing:                              | Heavy duty PE bag as inner packaging and PP woven bag as outer packaging. Each bag has a net weight of 25 kg.                                                                                                                                                                                     |                                |         |                  |             |
| Packing Size:                         | Converted dimension 550mm×850mm,or big package.                                                                                                                                                                                                                                                   |                                |         |                  |             |
| Storage:                              | The product should be stored in a dry, well ventilated warehouse. To avoid direct sunlight, the product should not be stored in the open air.                                                                                                                                                     |                                |         |                  |             |
| Transportation:                       | By means of truck, vessel or train. During transportation the product should not be exposed to the sunlight and rain. Neither should the product be mixed with contaminants(e.g. sand,metal). There should be no heavy bump or unloading by throwing the bags.                                    |                                |         |                  |             |
| Safety Precautions:                   | 1.Be away from fire and heat sources.<br>2.Should not be stored or transported together with chemicals and inflammables.<br>3.Warehouse must be equipped with extinguishers or fire-fighting device.<br>4.Water, carbon dioxide, dry powder or 1211 can be used as extinguishers for the product. |                                |         |                  |             |

