



## Plastics and Resins

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|                                       |                                                                                                                                                                                                                                                                                                       |                                |             |                           |           |          |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------|---------------------------|-----------|----------|
| Product Name:                         | Polypropylene Resin (Y2500C)                                                                                                                                                                                                                                                                          |                                |             |                           |           |          |
| Trade Mark:                           | Sanren Brand                                                                                                                                                                                                                                                                                          |                                |             |                           |           |          |
| Alternative Name:                     |                                                                                                                                                                                                                                                                                                       |                                |             |                           |           |          |
| Molecular formula/Structural Formula: | □                                                                                                                                                                                                                                                                                                     |                                |             |                           |           |          |
| Production Process:                   | Liquid phase bulk polymerization process is used for production of the product. The polymer produced is of homo-polypropylene type.                                                                                                                                                                   |                                |             |                           |           |          |
| Properties:                           | The pellet product is colourless and in the shape of a cylinder with controllable rheological property, good spinnability , as well as fairly good heat-resistance.                                                                                                                                   |                                |             |                           |           |          |
| Grade:                                |                                                                                                                                                                                                                                                                                                       |                                |             |                           |           |          |
| National Standard Grade:              | PPH-YH-300                                                                                                                                                                                                                                                                                            |                                |             |                           |           |          |
| Enterprise Standard Grade:            | Y2500C                                                                                                                                                                                                                                                                                                |                                |             |                           |           |          |
| Specifications:                       | Q/SH 012.07.06-1999 Polypropylene resin                                                                                                                                                                                                                                                               |                                |             |                           |           |          |
|                                       | No.                                                                                                                                                                                                                                                                                                   | Item                           | Unit        | Quality Criteria          |           |          |
|                                       |                                                                                                                                                                                                                                                                                                       |                                |             | Premium-grade             | 1st-grade | On-spec. |
|                                       | 1                                                                                                                                                                                                                                                                                                     | Cleanliness                    | piece/kg <= | 0-5                       | 6-10      | 11-20    |
|                                       | 2                                                                                                                                                                                                                                                                                                     | Melt flow rate                 | g/10min     | 25(+2.5)                  | 25(+4.0)  | 25(+5.0) |
|                                       | 3                                                                                                                                                                                                                                                                                                     | Tensile yield strength         | Mpa>=       | 32.0                      | 30.0      | 28.0     |
|                                       | 4                                                                                                                                                                                                                                                                                                     | Bending modulus                | GPa>=       | 0.88                      | 0.82      | 0.78     |
|                                       | 5                                                                                                                                                                                                                                                                                                     | Outrigger impact strength(23I) | J/m>=       | 17.0                      | 15.0      | 13.0     |
|                                       | 6                                                                                                                                                                                                                                                                                                     | Isotacticity                   | %(m/m)>=    | 94.5                      | 94.5      | 94.5     |
|                                       | 7                                                                                                                                                                                                                                                                                                     | Ash                            | %(m/m)<=    | 0.02                      | 0.04      | 0.05     |
|                                       | 8                                                                                                                                                                                                                                                                                                     | Chlorine content               | %(m/m)<=    | 0.005                     | -         | -        |
|                                       | 9                                                                                                                                                                                                                                                                                                     | Fish-eye                       | 0.8mm       | Piece/1520cm <sup>2</sup> | 0-4       | 5-8      |
|                                       |                                                                                                                                                                                                                                                                                                       |                                | 0.4mm       | <=                        | 0-20      | 21-40    |
|                                       | 10                                                                                                                                                                                                                                                                                                    | Vicat softening point          | >=          | 151                       | 143       | 135      |
|                                       | 11                                                                                                                                                                                                                                                                                                    | Yellowness-index               | <=          | 4                         | 4         | 4        |
| Scope of Application:                 | super-fine denier fabrics                                                                                                                                                                                                                                                                             |                                |             |                           |           |          |
| Major Applications:                   |                                                                                                                                                                                                                                                                                                       |                                |             |                           |           |          |
| Process Method:                       | Spinning                                                                                                                                                                                                                                                                                              |                                |             |                           |           |          |
| 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. |                                |             |                           |           |          |

