

NAN YA PLASTICS CORPORATION

TAIRILIN PET Resin

Type No: 8846 [Lot No: 9FA06]

Tairilin 8846 is a halogen-free flame retardant PET resin with high intrinsic viscosity of 0.84dl/g. Different flame retardant components are reacted into the polymer chain with high level of phosphorus element, which imparts this resin with intrinsic excellently fire resistance property.

Tairilin 8846 could be extruded singly or blended with other polyester resin, to convert as the products of fiber, film, sheet, foam or tube. 8846 resin is also suitable for compounding as engineering plastics. Its high intrinsic viscosity and lower carboxyl end group are advantageous to critical humid and thermal environment conditions, which is essential requirement for many industrial applications.

Tairilin 8846 resin is produced from the processes of melt state polycondensation and then solid state polycondensation. These processes are combined with a strict quality monitoring and control systems. These production facilities are approved by ISO9001, ISO14001 and OHSAS 18001 systems to confirm the outstanding quality.

Technical Data Sheet

| Items | | Units | Value | Test Method |
|--|-------------|--|-----------------------------|------------------|
| Intrinsic Viscosity | | dl/g | 0.840 ± 0.02 | ASTM D4603 |
| Melting temperature | | °C | 225 ± 3 | ASTM D3418 |
| Ash Content | | % | ≤ 0.02 | Nan Ya Method |
| Moisture | | % | ≤ 0.30 | Nan Ya Method |
| Acid value | | 10-6equ/g | 20 ± 10 | Titration Method |
| Bulk Density | | g/cm ³ | 0.87 ± 0.05 | JIS K-5101 |
| Chip Size | | chips/2g | 110 ± 3 | Weight scale |
| Fines | | ppm | < 100 | Nan Ya Method |
| Color | L Value | - | 81.0 ± 2.0 | ASTM E1164 |
| | b Value | - | 8.0 ± 1.0 | ASTM E1164 |
| The following are provided as suggesting value for reference | | | | |
| Drying Condition | Dew point | °C | -40 | |
| | Air flow | ft ³ /min | 1 / per pound chip per hour | |
| | Residence | hr | 4~6 | |
| | Temperature | °C | 160~170 | |
| Moulding temperature | | °C | 270~280 | |
| Resin storage conditions at converter | | Store PET bag in dry and clean warehouse. Consume PET resin within 1 year from packed date. | | |

(update on May 30, 2015)