

NAN YA PLASTICS CORPORATION

TAIRILIN Bottle Grade PET Resin

Type No: 3760

Tairilin 3760 is a copolymer resin with a nominal intrinsic viscosity of 0.76dl/g. This resin, designed for hot-filled applications, possesses excellent melting and crystallization characteristics. Specifically, the optimized crystallization rate of 3760 resin yields advantages in production speed and bottle clarity. The uniform crystallization rate of 3760 resin minimizes uneven shrinkage of the bottle during processing. Therefore, the bottles made with 3760 resin are capable of higher hot-fill temperature and better dimensional stability.

Tairilin 3760 resin is produced in a state of the art continuous polymerization technology and is combined with a strict quality monitoring system. The production facilities producing 3760 resin are approved by ISO9001, ISO14001 and OHSAS 18001 systems to confirm the outstanding quality of the product. 3760 resin has been accepted by international well-known beverage companies. 3760 resin conforms to FDA Regulation 177.1630 and European Directives, and is widely used for food and beverage packaging. 3760 resin is an environmental friendly product with the important advantage of being totally recyclable.

Technical Data Sheet

| Items | | Units | Value | Test Method |
|--|-------------|--|-----------------------------|---------------------|
| Intrinsic Viscosity | | dl/g | 0.760 ± 0.02 | Refer to ASTM D4603 |
| Melting point | | °C | 245 ± 3 | ASTM D3418 |
| Ash Content | | % | ≤ 0.02 | Ignition |
| Moisture content | | % | ≤ 0.30 | Oven |
| Acetaldehyde | | ppm | ≤ 1.00 | Gas Chromatography |
| Acid value | | equ/g×10-6 | 20 ± 10 | Titration |
| Bulk Density | | g/cm ³ | 0.89 ± 0.05 | JIS K-5101 |
| Pellet size | | chips/2g | 128 ± 3 | Weight scale |
| Fines | | ppm | < 100 | Sieve |
| Color | L value | – | 85.0± 2.0 | ASTM E1164 |
| | b value | – | -1.8± 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 | 7~5 | |
| | Temperature | °C | 160~170 | |
| Moulding temperature | | °C | 275~290 | |
| Resin storage conditions at converter | | Store PET bag in dry and clean warehouse. Consume PET resin within 1 year from packed date. | | |

(update on July 27, 2010)