

PRODUCT TECHNICAL DATA SHEET

Rev.01.2024/05/28



General information

Product Description

NEOPET CYCLE 82FR (Fast Reheat) is a food grade polyethylene terephthalate (PET) copolyester modified to improve infrared reheating of preforms and containing 30% of recycled PET, derived from an enhanced recycling process.

Preforms produced from NEOPET CYCLE 82FR provide enhanced energy absorption, resulting in an improved temperature control in the process, which in turn leads to improved material distribution and bottle properties, increased machine output and reduced energy consumption.

NEOPET CYCLE 82FR is suitable for the production of carbonated soft drink bottles and other applications such as water bottles and food containers, as well as packaging for household goods.

Application / Uses

- ◆ Still and carbonized beverages and water bottles
- ◆ Edible oil, juice, sport drinks, soy sauce, beer bottles
- ◆ Large size containers
- ◆ Containers for Cosmetics and Households

Product Properties

Property	Value	Test method
Intrinsic Viscosity (IV)*	0.82 ± 0.02 dl/g	WN-B010-7040 D (Capillary visc.)
Recycled content	30 %	-
Melting Temperature (T _m)	248 ± 4 °C	WN-B010-7089 D (DSC)
Acetaldehyde content (AA)	≤ 1 ppm	WN-B010-9013 D (GC)
Color L	≥ 65	WN-B010-7136 D (HUNTER Lab)
Color b	≤ 4	WN-B010-7136 D (HUNTER Lab)
Fines	≤ 50 ppm	WN-B010-9031 D
Water content	≤ 0.2 %	WN-B010-7159 D
Pellets weight	1.7 ± 0.1 g/100 pellets	WN-B010-9038 D
Pellets shape	Spherical pellets	-

*Ph/DCB 2: 3 (w/w), 25°C

Notes

NEOPET CYCLE 82FR resin is considered safe for food packaging applications. The Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that product use complies with all relevant regulations and applicable laws.

Warranty

NEO GROUP warrants that its products will comply with specifications and related regulatory compliance detailed in its publications.