

TECHNICAL DATA SHEET

MELPET® 21108

| Properties | Value | Unit | Test Method |
|----------------------|--------------|-------------------|------------------|
| Intrinsic Viscosity | 1,400 ± 0,02 | dL/g | ASTM D4603 |
| Acetaldehyde | ≤ 1,0 | ppm | ASTM F2013 |
| Color L* | 87,0 ± 4,0 | | ASTM D6290 |
| Color b* | 1,0 ± 2,0 | | ASTM D6290 |
| Melting Point | 245 ± 5 | °C | ASTM D3418 |
| Carboxylic End Group | 20 ± 10 | Eq/Ton | Titration Method |
| Bulk Density | 0,88 ± 0,05 | g/cm ³ | ASTM D1895 |
| Moisture Content | ≤ 0,2 | % | ASTM 6980 |
| Chip Size | 1,6 ± 0,2 | g/100 chips | Weight Scale |
| Crystallinity | ≥ 30 | % | ASTM D3418 |

DESCRIPTION AND APPLICATIONS:

MELPET® 21108 is crystalline, high molecular weight thermoplastic polymer made by continues polymerization process followed by solid-state polymerization. **MELPET® 21108** is especially formulated PET grade for engineering plastic applications such as microwave trays. It also suitable for monofilament, technical yarn, and strapping applications.

MELPET® 21108 resin is considered safe for food packaging applications based upon compliance with FDA regulation 21 CFR Section 177.1630, European Legislation EU 10/2011 and RoHS Directive EU RoHS 3 (EU Directive 2015/863) amend with EU RoHS 2 (EU Directive 2011/65) and its subsequent amendments for heavy metal contents.

PROCESSING CONDITIONS:

MELPET® 21108 has to be dried to moisture content below 30-40 ppm. The drying conditions typically used are 175°C for 6 hours; the dew point of the drying air should be at least -40 °C.

STORAGE AND HANDLING:

PET resin should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry with relative humidity below 50% and temperatures preferably don't exceed 50°C. MELTEM KİMYA would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PET within 6 months after delivery

Operating With: ISO 9001:2015 / ISO 14001:2015 / OHSAS 18001:2014

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