

# TECHNICAL DATA SHEET

## MELPET<sup>®</sup> 11111

| Properties           | Value        | Unit              | Test Method      |
|----------------------|--------------|-------------------|------------------|
| Intrinsic Viscosity  | 0,640 ± 0,02 | dL/g              | ASTM D4603       |
| Color L              | 56,0 ± 3,0   |                   | ASTM D6290       |
| Color b              | 4,0 ± 2,0    |                   | ASTM D6290       |
| DEG Content          | 1,3 ± 0,2    | %                 | GC Method        |
| Melting Point        | 256 ± 5      | °C                | ASTM D3418       |
| Carboxylic End Group | 35 ± 10      | Eq/Ton            | Titration Method |
| Bulk Density         | 0,88 ± 0,05  | g/cm <sup>3</sup> | ASTM D1895       |
| Moisture Content     | ≤0,2         | %                 | ASTM 6980        |
| Chip Size            | 2,5 ± 0,2    | g/100 chips       | Weight Scale     |

### DESCRIPTION AND APPLICATIONS:

MELPET<sup>®</sup> 11111 is amorphous, low molecular weight thermoplastic polymer made by continuous polymerization process.

MELPET<sup>®</sup> 11111 is especially formulated for BOPET film applications with pinning agents.

MELPET<sup>®</sup> 11111 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:

After crystallization process, MELPET<sup>®</sup> 11111 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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