

Provisional Technical Data Sheet

ASPIRE® 15

Polyethylene Terephthalate (PET) Copolymer Resin

ASPIRE® 15 is a PET grade that contains a minimum of 15% post-consumer recycled (PCR) PET resin.

The grade is a pellet blend of virgin PET and food grade recycled PET pellets processed together to produce a one bag solution of PET resin.

ASPIRE® 15 is food contact compliant and suitable for Carbonated Soft Drink (CSD) bottles and other injection stretch blow moulded containers. It is also used in sheet extrusion for thermoformed food packaging.

Properties

- Excellent processability
- Good mechanical properties
- Low Acetaldehyde

Typical Applications

- Carbonated soft drink bottles
- Non-carbonated soft drink bottles
- Household product bottles
- Thermoformed food packaging

| PROPERTIES ⁽¹⁾ | VALUE | UNIT | TEST METHOD |
|---------------------------|--------|------|---------------------------|
| General | | | |
| Intrinsic Viscosity | 0.84 | dl/g | ASTM D4603 ⁽²⁾ |
| Acetaldehyde | ≤ 1.5 | ppm | ASTM F2013 ⁽³⁾ |
| Moisture | ≤ 2000 | ppm | Internal Test Method |
| Thermal | | | |
| Melting Point | 254 | °C | ASTM D3418 |
| Crystallinity | ≥ 40 | % | ASTM D3418 |
| Optical | | | |
| L* Colour | > 74 | ~ | ASTM D6290 |
| b* Colour | < 0.5 | ~ | ASTM D6290 |

(1) Typical values; not to be construed as specification limits

(2) Dichloroacetic acid 1% solution

(3) Helium gas carrier

| Typical processing conditions | Injection Stretch Blow Moulding |
|-------------------------------|---------------------------------|
| Drying Temperature (°C) | 160 - 180 |
| Drying Time (hrs) * | 4 - 6 |
| Processing Temperature (°C) | 280 ±10 |

* Preferably in a drier with a dehumidifier set at -40°C

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| <p>Food Contact Compliance</p> | <p>rPET 801.01 Polyethylene Terephthalate Copolymer Resin should comply with Commission Regulation (EU) No 10/2011 and with U.S.FDA 21 CFR 177.1630 f(1) and g(1) food contact regulations when used unmodified and processed according to good manufacturing practices for food contact applications. The purchaser remains responsible for determining whether the use complies with all relevant regulations.</p> |
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Additional Information

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| Published: | January 2022 |