

Technical Data Sheet

ASPIRE T80

Polyethylene Terephthalate (PET) Copolymer Resin

ASPIRE T80 is a non-fast reheat PET copolymer resin. It is cobalt free used in injection stretch blow moulding for still mineral water containers.

Other applications include thermoformable sheet extrusion used in food packaging containers as well as industrial strap extrusion.

Properties

- Excellent process ability
- Superb clarity and gloss
- Low Acetaldehyde

Typical Applications

- Bottles for still mineral water
- Thermoformed food packaging

| PROPERTIES ⁽¹⁾ | VALUE | UNIT | TEST METHOD |
|---------------------------|--------|------|---------------------------|
| General | | | |
| Intrinsic Viscosity | 0.80 | 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 | > 80 | ~ | 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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Additional Information

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