

Technical Data Sheet

ASPIRE™ T84

Polyethylene Terephthalate (PET) Copolymer Resin

ASPIRE™ T84 is a non-fast reheat PET copolymer resin. It is cobalt free used in injection stretch blow moulding for beverage, edible oils and cosmetic 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 mineral water
- Carbonated and non-carbonated soft drink bottles
- Cosmetic bottles
- Edible oil bottles
- Thermoformed food packaging

PROPERTIES ⁽¹⁾	VALUE	UNIT	TEST METHOD
General			
Intrinsic Viscosity	0.84	dl/g	ASTM D4603 ⁽²⁾
Acetaldehyde	≤ 1.0	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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Food Contact Compliance	<p>ASPIRE™ T84 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

Contact details

Safripol (Pty) Ltd
Private Bag X52
Bryanston
2021
South Africa

Gauteng:
Tel: +27 (0) 11 575 4549

Kwa-Zulu Natal:
Tel: +27 (0) 31 450 4111

Website: www.safripol.com

Email: info@safripol.com

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