

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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Product Stewardship	At Safripol, protecting people and the environment will be a part of everything we do and every decision we make. Each employee has a primary responsibility in ensuring that our products and operations meet applicable government standards. Our goal is to eliminate all injuries, prevent adverse environment and health impacts, reduce wastes and emissions and promote resource conservation at every stage of the life cycle of our products. The success of this rests with each and every individual involved with Safripol products throughout the life cycle.
Food Contact Compliance	ASPIRE® 15 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.
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Additional Information

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