SAFRIPOL
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Safripol (Pty) Ltd

Technical Data Sheet

ASPIRE® 25

Polyethylene Terephthalate (PET) Copolymer Resin

ASPIRE® 25 is a PET grade that contains a minimum of 25% 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® 25 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® 25 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.

Customer Notice

Safripol strongly encourages its customers to review both their manufacturing processes and their applications of Safripol products from the standpoint of human health and environmental quality to ensure that Safripol products are not used in ways for which they are not intended or tested. Safripol personnel are available to answer your questions and to provide reasonable technical support. Safripol product literature, including safety data sheets, should be consulted prior to use of Safripol products. Current safety data sheets are available from Safripol.

Medical Application Policy

Safripol will not knowingly sell or sample any product or service ("Product") into any commercial or developmental application that is intended for:

a) permanent (Long term) contact with internal body fluids or internal body tissues. Long term is a use which exceeds 72 continuous hours.

b) use in cardiac prosthetic devices regardless of the length of time involved; (Cardiac prosthetic devices include, but are not limited to, pacemaker leads and devices, artificial hearts, heart valves, intra-aortic balloons and control systems, and ventricular bypass assisted devices);

c) use as a critical component in medical devices that support or sustain human life; or

d) use specifically by pregnant women or in applications designed specifically to promote or interfere with human reproduction.

Additionally, all Products intended for use in pharmaceutical applications, other than pharmaceutical packaging, must pass the current Pharmaceutical Liability Guidelines.

- New business opportunities require a business assessment prior to sale or sampling of Safripol products.
- Authorized distributors and resellers will adhere to this medical policy.
- Safripol does not endorse or claim suitability of their products for specific medical applications. It is the responsibility of the medical device or pharmaceutical manufacturer to determine that the Safripol product is safe, lawful, and technically suitable for the intended use. SAFRIPOL MAKES NO WARRANTIES, EXPRESS OR IMPLIED, CONCERNING THE SUITABILITY OF ANY SAFRIPOL PRODUCT FOR USE IN MEDICAL APPLICATIONS.

Disclaimer

The Customer is responsible for determining whether products and the information in this document are appropriate for the Customer's use and for ensuring that the Customer's workplace and disposal/ recycling practices of our products and packaging are in compliance with applicable laws and other governmental enactments. Safripol assumes no obligation or liability for the information in this document. **NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.**

NOTICE: If products are described as "experimental" or "developmental": (1) product specifications may not be fully determined; (2) analysis of hazards and caution in handling and use are required; and (3) there is greater potential for Safripol to change specifications and/or discontinue production.

Additional Information

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