



Technical Data Sheet

ASPIRE® 84 FRX

Polyethylene Terephthalate (PET) Copolymer Resin

ASPIRE® 84 FRX is a fast reheat, high viscosity PET copolymer resin. The resin is characterised by its improved processability and exceptional stability allowing for optimum productivity.

ASPIRE® 84 FRX is 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 process ability
- Improved heat absorption capabilities
- Good mechanical properties
- Superb clarity and gloss
- 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 Acetaldehyde Moisture	0.84 ≤ 1.0 ≤ 2000	dl/g ppm ppm	ASTM D4603 (2) ASTM F2013 (3) Internal Test Method
Thermal Melting Point Crystallinity	254 ≥ 40	°C %	ASTM D3418 ASTM D3418
Optical L* Colour b* Colour	> 75 < 0.5	~ ~	ASTM D6290 ASTM D6290

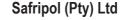
⁽¹⁾ Typical values; not to be construed as specification limits.

⁽³⁾ Helium gas carrier

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

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

⁽²⁾ Dichloroacetic acid 1% solution.





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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.
ASPIRE® 84 FRX 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.
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.
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Additional Information

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.

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