

# ASPIRE<sup>®</sup> 84 FRX

## Polyethylene Terephthalate (PET) Copolymer Resin

ASPIRE<sup>®</sup> 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<sup>®</sup> 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 <sup>(1)</sup>	VALUE	UNIT	TEST METHOD
<b>General</b>			
Intrinsic Viscosity	0.84	dl/g	ASTM D4603 <sup>(2)</sup>
Acetaldehyde	≤ 1.0	ppm	ASTM F2013 <sup>(3)</sup>
Moisture	≤ 2000	ppm	Internal Test Method
<b>Thermal</b>			
Melting Point	254	°C	ASTM D3418
Crystallinity	≥ 40	%	ASTM D3418
<b>Optical</b>			
L* Colour	> 75	~	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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<b>Product Stewardship</b>	<p>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.</p> <p>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.</p>
<b>Food Contact Compliance</b>	<p>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.</p>
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### Additional Information

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