

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 characterized for its improved processability and exceptional stability allowing 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	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	> 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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<p>Food Contact Compliance</p>	<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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