Product name:	Product code:
Environmental Stress Crack Resistance Tester for HDPE Bottles	CMI-IND-0544

Description

Test rack with pressurised bottles in a heated detergent bath to find the time to stress crack failure of HDPE containers. Used by bottle makers for household chemical, lubricant and agrochemical packaging per ASTM D2561.

Technical specification

Standard Accessories

- Neck connectors
- Pressure regulator
- Detergent solution dosing jug

Bottles are filled with a surfactant solution, pressurised internally at a small differential pressure and kept at 60 deg C in a thermostatic bath. The time to first leakage shows the resin and moulding quality. It reveals the effect of wall thickness and base design on stress cracking.

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Features

- Stainless steel bath with heater and circulator
- Multi station pressure manifold for 10 bottles
- Regulator and gauges for internal pressure
- Temperature control within +/-1 deg C
- Timer per station with failure detection

Technical Specifications

Test standards	ASTM D2561, ASTM D1693 principle
Stations	10 bottles
Bath temperature	Ambient to 80 deg C, +/-1 deg C
Internal pressure	0 to 2 bar adjustable
Bath volume	120 litre
Bottle size	100 ml to 5 litre
Material	SS 304 bath
Power supply	230 V AC, 50 Hz, 3 kW