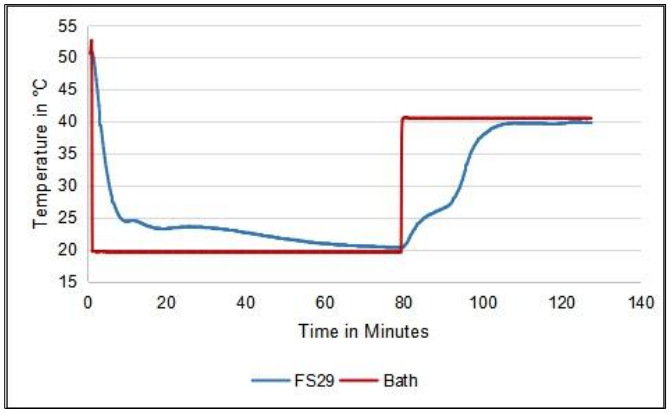
TECHNICAL DATA SHEET OF savE® FS29

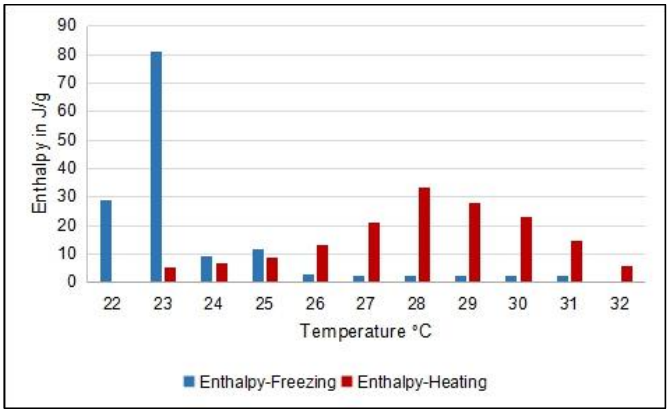
Technical specification:

Product	:	*savE*® FS29
Description	:	Form stable phase change material – liquid PCM embedded in polymer matrix
Appearance	:	Black semi solid mass @25 °C

Phase transition temperature range and stored thermal energy*



Temperature vs time curve



Enthalpy vs temperature curve

Property	Value**	Test method	Test conditions (if any)
Phase transition temperature Melting Freezing	 27 °C 23 °C	 PLUSS® T-History PLUSS® T-History	 @ 39°C Air bath @ 19°C Air bath
Latent heat/enthalpy Melting Freezing	 160 kJ/kg 146 kJ/kg	 PLUSS® T-History PLUSS® T-History	 @ 22 to 32 °C @ 32 to 22 °C
Density Liquid Solid	 952 kg/m^3 1040 kg/m^3	 ASTM D891-95 ASTM D891-95	 @ 40 °C @ 20 °C
Specific heat Liquid Solid	 2.1 kJ/kgK 2.7 kJ/kgK	 PLUSS® T-History PLUSS® T-History	 @ 40 °C @ 10 °C
Thermal conductivity Liquid Solid	 NA 0.45 W/mK	 KD2Pro	 @ 25 °C
Number of cycles tested	~2000	PLUSS® Internal	
Maximum operating temperature	90 °C		
Flammability	Yes		
Flash point	200 °C		

* Determined by T-history
**Nominal Valu[es. Actual values mentioned in test certificate.
Compatibility data available on request.
PCM is available in bulk, pouches or in containers of choice (Refer to Document 301_PCM Encapsulation).

Pluss Advanced Technologies Ltd
B-205, Tower B – Pioneer Urban Square, Sec 62, Gurugram-122101, Haryana, India
Telephone: +91 - 124 - 4309490/91/92
E-mail: info@pluss.co.in | Web: www.pluss.co

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