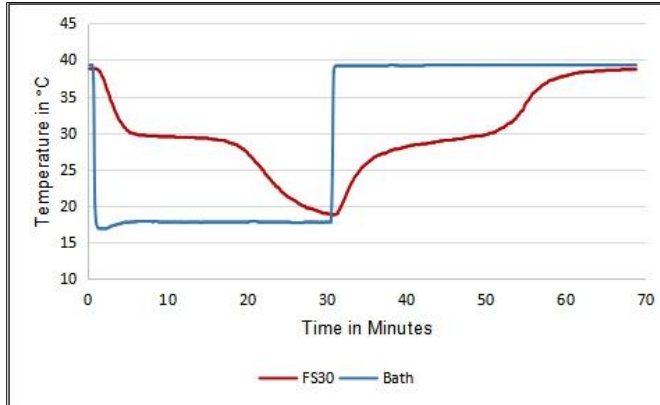


# TECHNICAL DATA SHEET OF savE® FS30

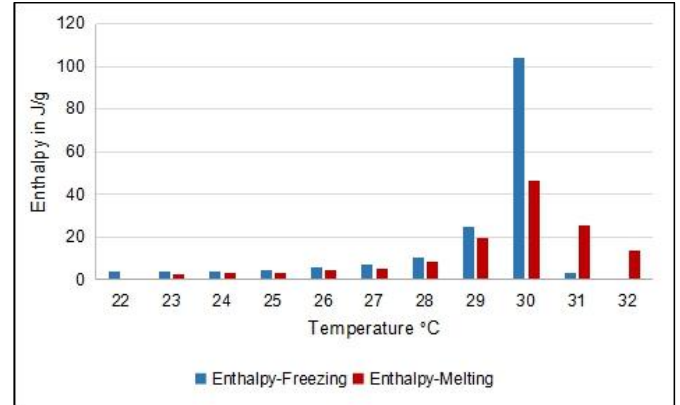
## Technical specification:

Product	:	savE® FS30
Description	:	Form stable phase change material – liquid PCM embedded in polymer matrix
Appearance	:	Black solid @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	29 °C	PLUSS® T-History	@ 40 °C Liquid bath
Freezing	29 °C	PLUSS® T-History	@ 20 °C Liquid bath
Latent heat/enthalpy			
Melting	132 kJ/kg	PLUSS® T-History	@ 22 to 32 °C
Freezing	171 kJ/kg	PLUSS® T-History	@ 32 to 22 °C
Density			
Liquid	960 kg/m <sup>3</sup>	ASTM D891-95	@ 40 °C
Solid	1058 kg/m <sup>3</sup>	ASTM D891-95	@ 20 °C
Specific heat			
Liquid	2.77 kJ/kgK	PLUSS® T-History	@ 42 °C
Solid	2.46 kJ/kgK	PLUSS® T-History	@ 22 °C
Thermal conductivity			
Liquid	0.340 W/mK	KD2Pro	@ 40 °C
Solid	0.496 W/mK	KD2Pro	@ 18 °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](#)).

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