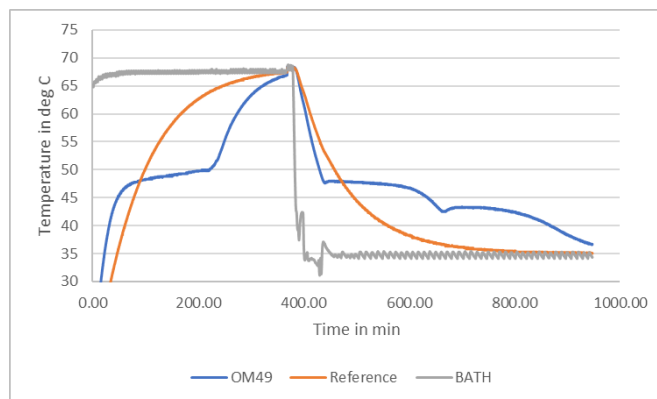


# TECHNICAL DATA SHEET OF savE® OM49

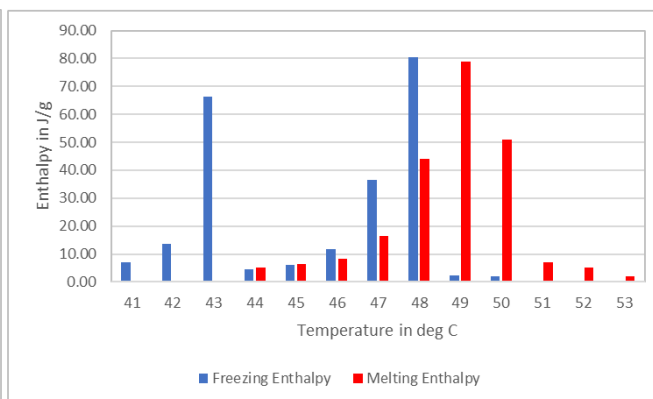
## Technical specification:

Product : savE® OM49  
 Description : Organic phase change material  
 Appearance : White flakes at 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)
<b>Phase transition temperature</b>			
<b>Melting</b>	49 °C	PLUSS® T-History	@ 70 °C Air bath
<b>Freezing</b>	48 °C and 43 °C	PLUSS® T-History	@ 30 °C Air bath
<b>Latent heat/enthalpy</b>			
<b>Melting</b>	224 kJ/kg	PLUSS® T-History	@ 44 to 53 °C
<b>Freezing</b>	230 kJ/kg	PLUSS® T-History	@ 50 to 41 °C
<b>Density</b>			
<b>Liquid</b>	NA		
<b>Solid</b>	816 kg/m <sup>3</sup>	ASTM D891-95	@ 25 °C
<b>Specific heat</b>			
<b>Liquid</b>	3.59 kJ/kgK	PLUSS® T-History	@ 70 °C
<b>Solid</b>	3.54 kJ/kgK	PLUSS® T-History	@ 30 °C
<b>Thermal conductivity</b>			
<b>Liquid</b>	0.134 W/mK	KD2Pro	@ 60 °C
<b>Solid</b>	0.188 W/mK	KD2Pro	@ 10 °C
<b>Number of cycles tested</b>	~1000	PLUSS® Internal	
<b>Maximum operating temperature</b>	75 °C		
<b>Flammability</b>	No		

\* Determined by T-history

\*\*Nominal Values. 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 Pvt. 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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