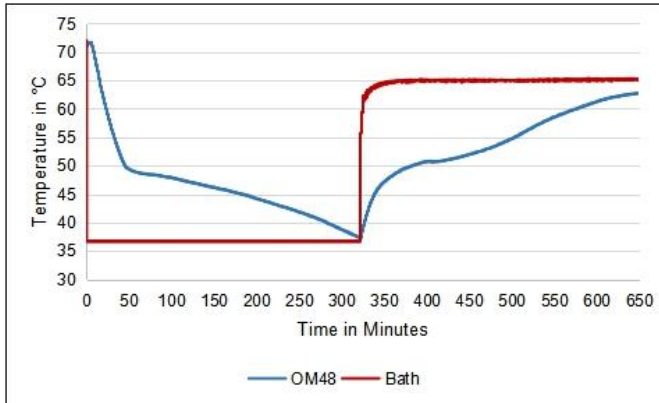


# TECHNICAL DATA SHEET OF savE® OM48

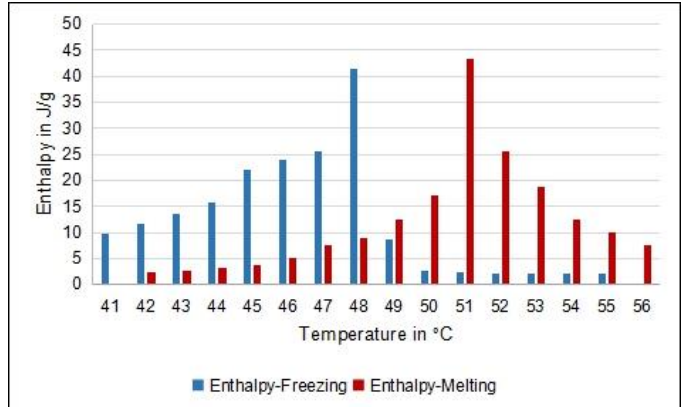
## Technical specification:

Product	:	savE® OM48
Description	:	Organic phase change material
Appearance	:	White waxy 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	51 °C	PLUSS® T-History	@ 58 °C Air bath
Freezing	48 °C	PLUSS® T-History	@ 38 °C Liquid bath
Latent heat/enthalpy			
Melting	165 kJ/kg	PLUSS® T-History	@ 46 to 56 °C
Freezing	172 kJ/kg	PLUSS® T-History	@ 51 to 41 °C
Density			
Liquid	875 kg/m <sup>3</sup>	ASTM D891-95	@ 55 °C
Solid	960 kg/m <sup>3</sup>	ASTM D891-95	@ 28 °C
Specific heat			
Liquid	2.35 kJ/kgK	PLUSS® T-History	@ 60 °C
Solid	2.02 kJ/kgK	PLUSS® T-History	@ 28 °C
Thermal conductivity			
Liquid	0.10 W/mK	KD2Pro	@ 60 °C
Solid	0.20 W/mK	KD2Pro	@ 05 °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 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

PLUSS-TDS-DOC-193 Version no.-R0, 15-Feb-2022

The information given here is meant as a guide to determining suitability of our products for a desired application. It is based on tests carried out by our laboratories and data selected from literature and shall in no event be held to constitute or imply any warranty. The products are intended for use in industrial applications. The users should test the materials before use and satisfy themselves with regard to contents and suitability in the desired application. Our formal specifications define the limits of our commitment. Recommendation herein may not be construed as freedom to infringe/operate under any third party patents. In the event of a proven claim, our liability is limited only to replacement of our material and in no case shall we be liable for special, incidental or consequential damages arising out of usage of our material. This datasheet is subject to change without notice. For detailed safety and handling information regarding these products, please refer to Safety Data Sheet and Bulking handling instruction which is available on request.