TECHNICAL DATA SHEET OF savE® FS21R

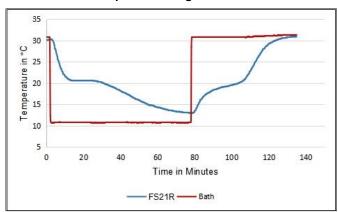
Technical specification:

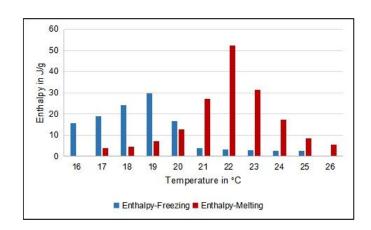
Product : savE® FS21R

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 Freezing	19 °C 21 °C	PLUSS® T-History PLUSS® T-History	@ 31 °C Air bath @ 11 °C Air bath
Latent heat/enthalpy Melting Freezing	170 kJ/kg 121 kJ/kg	PLUSS® T-History PLUSS® T-History	@ 16 to 26 °C @ 26 to 16 °C
Density Liquid Solid	898 kg/m ³ 887 kg/m ³	ASTM D891-95 ASTM D891-95	@ 30 °C @ 0 °C
Specific heat Liquid Solid	2.68 kJ/kgK 2.56 kJ/kgK	PLUSS® T-History PLUSS® T-History	@ 30 °C @ 10 °C
Thermal conductivity Liquid Solid	0.10 W/mK 0.30 W/mK	KD2Pro KD2Pro	@ 40 °C @ 5 °C
Number of cycles tested	~2000	PLUSS® Internal	
Maximum operating temperature	90 °C		
Flammability	Yes		
Flash point	160 °C		

^{*} Determined by T-history

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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^{**}Nominal Valu[es. Actual values mentioned in test certificate.