

savENRG [™] Phase Change Materials for Thermal Energy Storage

Organic, savENRG[™] Phase Change Materials (PCMs) are a uniquely engineered mixture of organic materials that have high capacity to store thermal energy as latent heat. This energy is absorbed and/or released at specific temperatures. savENRG[™] PCMs retain their latent heat without any change in physical or chemical properties for over thousands of cycles. PCM-OM55P is constituted of the right mix of various additives allowing equilibrium between solid and liquid phases to be attained at the melting point.

Technical Specification:

Product	: savENRG PCM-OM55P
Description	: Mixture of Organic materials
Appearance	: White color

T-History Test



A 20g sample is taken in a test tube in molten condition and placed in a temperature controlled bath. A temperature sensor is placed in the test tube and bath to record the temperatures using a data logger. The bath is maintained at around 45 °C during the freezing cycle and at around 65°C during the melting cycle.

Value	Test Method	Test Conditions (if any)
55	T - History	At 65 [°] C (maximum) Bath
55	T - History	At 45 °C Bath
840	Internal	At 12 °C
210	T- History	from 45° to 65°C
0.73	Calorimetry	@ 32 [°] C
Organic Cher	nical	-
Yes		-
Low	T-History -	
Under test	Internal	
80 °C		
	Value 55 55 840 210 0.73 Organic Cher Yes Low Under test 80 °C	ValueTest Method55T - History55T - History840Internal210T- History0.73CalorimetryOrganic ChemicalYesLowT-History -Under testInternal80 °C

The information given here is meant as a guide to determining suitability of our products for the stated applications. 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. We guarantee that our products will meet our written specifications. Nothing herein shall constitute any other warranty expressed or implied. 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 prior notice.

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