

PCM-OM35P

savENRG [™] Phase Change Materials for Thermal Energy Storage

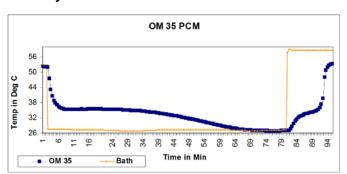
Organic, savENRG™ Phase Change Materials (PCMs) are a uniquely engineered mixture of organic materials that have high capacity to store thermal energy as latent heat. This energy is absorbed and/or released at specific temperatures. savENRG™ PCMs retain their latent heat without any change in physical or chemical properties for over thousands of cycles. PCM-OM35P is constituted of the right mix of various additives allowing equilibrium between solid and liquid phases to be attained at the melting point.

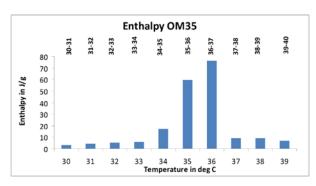
Technical Specification:

Product: savENRG PCM-OM35P

Description: Mixture of Organic materials Appearance: White waxy flakes (below 35°C)

T-History Test





T-History graph OM 35

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 27 °C during the freezing cycle and at around 58°C during the melting cycle.

Property	Value	Test Method	Test Conditions (if any)
Freezing Temp. (°C)	35	T - History	@ 27 °C Bath
Latent Heat (kJ/kg)	197	T- History	From 30 to 40°C
Liquid Density (g/cc)	0.87	ASTM D891-95	@ 45°C
Solid Density (g/cc)	0.90	ASTM D891-95	@ 30°C
Base Material	Organic chemicals -		
Congruent Melting	Yes	-	
Sub Cooling	No	T-Histo	ry
Flammability	May be combustible at high temperature		
Thermal Stability (cycles)	Under test Internal		
Max. Operating Temp. (°C)	~80		

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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