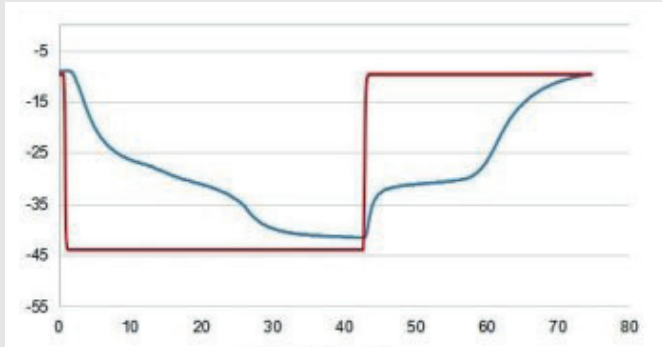




# PHASE CHANGE MATERIAL

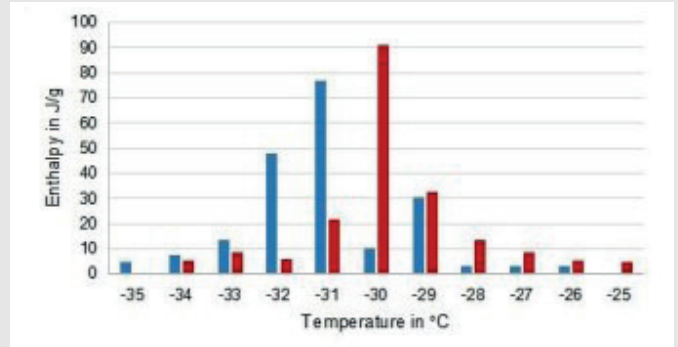
## - 30°C

### Phase transition temperature range and stored thermal energy determined by T-history



■ Bath

■ PCM -30



■ Enthalpy-Melting ■ Enthalpy-Freezing

Property	Value	Test conditions
<b>Phase transition temperature</b>		
Melting	-30 °C	@ -23 °C Liquid bath
Freezing	-31 °C	@ -33 °C Liquid bath
Nucleation temperature	-34 °C	@ -33 °C Liquid bath
<b>Latent heat/enthalpy</b>		
Melting	197 kJ/kg	@ -25 to -35 °C
Freezing	201 kJ/kg	@ -35 to -25 °C
<b>Density</b>		
Liquid	1425 kg/m <sup>3</sup>	@ 30 °C
Solid	1460 kg/m <sup>3</sup>	@ -44 °C
<b>Specific heat</b>		
Liquid	2.7 kJ/kgK	@ 30 °C
Solid	2.1 kJ/kgK	@ -40 °C
<b>Thermal conductivity</b>		
Liquid	NA	-
Solid	NA	-
Number of cycles tested	~2000	
Maximum operating temperature	90 °C	
Flammability	No	

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.

**Questions?**  
**Get in touch with us!**

[www.phasechangematerial.nl](http://www.phasechangematerial.nl)

+31 (0)33 457 19 82

info@coolpack.nl

Industrieweg 11b, 1566 JN Assendelft, NL