

Heat capacity, heat of reaction & Lower Calorific Value of Telene[®] Non reinforced grades

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Heat capacity - Telene[®] polymer - non reinforced grades

Temp. °C	Cp Cal/gK	Cp J/gK
50	0.3786	1.582548
60	0.3889	1.625602
70	0.4003	1.673254
80	0.4169	1.742642
90	0.4294	1.794892
100	0.4366	1.824988
110	0.4429	1.851322
120	0.4512	1.886016
130	0.4553	1.903154
140	0.4595	1.92071
150	0.4709	1.968362
160	0.4968	2.076624
170	0.5092	2.128456
180	0.5289	2.210802
190	0.5404	2.258872
200	0.5538	2.314884
210	0.5601	2.341218
220	0.5652	2.362536

Heat Capacity of Telene A and B formulation components

- 2.09 kJ/kg/K or 0.5 kcal/kg/deg °C at Room Temperature

Heat of reaction

- $\Delta H = 374$ J/g of reactive mixture

Lower Calorific Value of Telene[®]

Liquid components: 10250 kcal/kg

Polymer: 9900 kcal/kg

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Thermal conductivity of Telene® polymer

Thermal Conductivity was determined in accordance with ASTM 518-04, "Standard Test for Steady-State Thermal Transition Properties by means of Heat-flow Meter Apparatus". Testing was performed using the "two thickness mode" of a LaserComp Fox 50 heat flow meter instrument. Thermal Conductivity was determined at 20°C, with a 20°C differential and downward heat flow.

Average value (unexposed) :	0.174 W/m-K
Average value (aged at 12 months in sea water at 90°C) :	0.189 W/m-K

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