



The waxes & polymers used to formulate investment casting waxes are somewhat crystalline. When these materials melt they take in heat energy. When they cool, heat is released.

The Argüeso development facility uses a differential scanning calorimeter (DSC) to characterise this heat flux as a function of temperature. This type of thermal analysis can be put to many uses.

Here, the heating curve indicates that the reclaimed sprue wax under test contains a significant amount of a high melting polymer. This type of material boosts wax melt points - its presence is not conducive to the elimination of dewax related shell cracking.