

The dataset contains machine raw data in .xls format.

- Rheological analysis:  
Data are labelled as follows: "Rheo\_PCL X kDa Flow Y °C".xls, where "X" indicates the molecular weight of PCL and "Y" the temperature at which the test was conducted.
- DSC analysis:  
Data are labelled as follows: "DSC\_PCL10-MA".xls, and "DSC\_X-PCL10-MA".xls
- QS tensile tests:  
Data are labelled as follows: "QS\_X-PCL10-MA".xls, followed by progressive number (e.g., (1)), indicating the replicates.
- DMA - temperature ramp:  
Data are labelled as follows: "DMA\_Tramp\_X-PCL10-MA".xls.
- DMA - one-way shape memory test:  
Data are labelled as follows: "One-way SME\_X-PCL10-MA".xls.
- DMA - two-way shape memory test:  
Data are labelled as follows: "Two-way SME\_X-PCL10-MA\_eps "X"%".xls, where "X" indicates the strain applied (40 or 50 %).