**package** 'TemperatureControlledSystem' {

**part** **def** TemperatureSensor;

**part** **def** CoolingSystem;

**attribute** **def** TemperatureValue;

}

**package** TemperatureControlledSystemRequirements {

**requirement** TemperatureControlledSystemSpecification{

**subject** temperatureSensor : TemperatureSensor

//functional requirement: operational temperature range is below 40 C (313.15 K)

**requirement** **def** <'1'> temperatureLimitationRequirement : TemperatureLimitationRequirement {

**doc** /\* The actual temperature shall be less than or equal to the maximum required temperature of 40 C. \*/;

**attribute** temperatureActual : TemperatureValue;

**attribute** temperatureMaxReqd : TemperatureValue;

**require** **constraint** { temperatureActual <= 40 }

**requirement** **def** <'1.1’> safetyRequirementLimit :> TopLevelSafetyRequirement {

doc /\* System shall avoid overheating \*/}

}

A close-up of a card

Description automatically generated