

⚠️ **Your top-level group ADVANCE is over the 5 user limit and has been placed in a read-only state.**

To remove the [read-only](#) state and regain write access, ask your top-level group owner(s) to reduce the number of users in your top-level group to 5 users or less, or to upgrade to a paid tier which do not have user limits.

Aging

Last edited by [Karl Knoebl](#) 3 years ago

- *scheme clima sensitive test; abbreviation AAAAA*

Climate testing WP3	AAAAA Abbreviation	1	2	3	Number of cycles	Σ duration, Δ intermediate assessment
Reference	Ref	DH85				1000h, 250h
Moderate 1	Mod1	DHI85				1000h, 250h
Moderate 2	Mod2	ISUN1	DH85		1+7	
Moderate 3	Mod3a	ISUN1	DH85	before DML	1+7	
	Mod3b	ISUN1	DH85	after DML1	1+7	
	Mod3c	ISUN	DH85	After DML2	1+7	
Moderate 4	Mod4	ISUN1	DH85	SaltM	1+7	
Moderate 5	Mod5	ISUN1	DH85	TC50	1+7	
Tropical 1	Trop1	DH85				3000h, 500h
Tropical 2	Trop2	DH95				3000h, 500h
Tropical 3	Trop3	ISUN4	DH95		1+7	
Arid 1	Arid1	ISUN5				1000h, 250h
Arid 2	Arid2	ISUN3	HEAT	DML1	1+7	
Arid 3	Arid3	ISUN3	HEAT	SAND	1+7	
Alpine 1	Alp1a	DHI85	before DML1			1000h, 250h
	Alp1b	DHI85	after DML1			1000h, 250h
Alpine 2 (planned only)	Alp2	DHI85	DML1		1+7	
Alpine 3 (planned only)	Alp3	ISUN2	DH85	TC50	1+7	

Ageing WP4						
Ageing T2	DH85	DH85				3000h, 1000h
Ageing T3	ISUN1	ISUN1				3000h, 500h
Ageing T4	COMB	DH85	ISUN1	DAMP	1+7	

- *scheme*
ageing procedure; abbreviation;
1..n Parameter: name, range [default value], dimension //comment
- Damp-Heat test; **DH85** or **DH95**
relative humidity, 50-95 [85 or 95], %
temperature, 40-95 [85 or 95], °C
duration, 50-4000 [1000], h
- Damp-Heat test with Irradiation; **DHI** or **DHI85**
relative humidity, 50-95 [85 or 95], %
temperature, 40-95 [85 or 95], °C
irradiation intensity, 1000-1200 [1200 or 1000], W/m²
duration, 50-4000 [1000], h
- Heat test; **HEAT**
relative humidity, 50-95 [95], %
temperature, 40-95 [50], °C
duration, 50-4000 [1000], h
- Damp test; **DAMP**
relative humidity, 50-95 [85], %
temperature, 20-85 [30], °C
duration, 50-4000 [1000], h
- Irradiation with artificial sunlight; **ISUN1**
intensity, 400-1300 [1000], W/m²
duration, 30-3000 [1000], h
chamber temperature, 30-95 [60], °C
rel. humidity, 30-95 [40], %
- Irradiation with artificial sunlight; **ISUN2**
intensity, 400-1300 [1200], W/m²
duration, 30-3000 [1000], h
chamber temperature, 30-95 [60], °C
rel. humidity, 30-95 [40], %
- Irradiation with artificial sunlight; **ISUN3**
intensity, 400-1300 [1200], W/m²
duration, 30-3000 [1000], h
chamber temperature, 30-95 [80], °C
rel. humidity, 30-95 [40], %
- Irradiation with artificial sunlight; **ISUN4**
intensity, 400-1300 [1000], W/m²
duration, 30-3000 [1000], h
chamber temperature, 30-95 [80], °C
rel. humidity, 30-95 [60], %

- Irradiation with artificial sunlight; **ISUN5**
intensity, 400-1300 [1200], W/m²
duration, 30-3000 [1000], h
chamber temperature, 30-95 [95], °C
rel. humidity, 30-95 [50], %
- Irradiation with UV-light; **IUVA**
wavelength, 300-400 [340], nm
intensity at wavelength x, 0,3- [0,51], W/m².nm
duration, 30-3000 [1000], h
chamber temperature, 30-95 [40], °C
rel. humidity, 30-80 [60], %
- Temperature Cycling; **TC50** or **TC200**
temperature1, -40 °C,
duration1, min 10min, ramp1, max 100°C/h
temperature2, +85 °C,
duration2, min 10min; ramp2, max 100°C/h
numCycles, 10-500 [50 or 200cycles] //one cycle consists of duration1 at temperature1, ramp1 and duration2 at temperature2, ramp2 = max.
6h
- Salt mist, **SaltM**
duration, 10-1000 [24], h
salt solution saturation, 1-10 [5], %
temperature, 25-50 [35], °C
- Dynamic Mechanical Load, **DML1** or **2**
force, 100-3000 [1000 or 2400], Pa
duration, 20-60 [30], s //in seconds per cycle
numCycles, 10-5000 [1000]
- Sand abrasion, **SAND**
relative humidity, 30-60 [40], %
temperature, 20-85 [60], °C
duration, 50-1000 [48], h
- Fresh out of the box (nach Produktion); **FOOB**
- FOOB Preconditioning 40kWh (before different ageing tests start); **FOOBA**