

DMA 242 E Artemis	
Temperature range	-170°C to 600°C
Heating rate	0.01 K/min to 20 K/min
Frequency range	0.01 Hz to 100 Hz
Force range with high force	24 N (max.)
Force range with high resolution	8 N (max.)
Maximum controlled strain amplitude	± 240 µm
Static deformation	Up to 20 mm
Modulus range	10 ⁻³ to 10 ⁶ MPa
Damping range (tanδ)	0.005 to 100
Cooling device	<ul style="list-style-type: none"> ▪ Liquid nitrogen: -170°C to 600°C ▪ Compressed air with vortex tube: 0°C to 600°C ▪ AIC 80 air intracooler: -70°C to 600°C; AIC 80 is activated < 300°C
Deformation modes	<ul style="list-style-type: none"> ▪ 3-point bending ▪ Single / dual cantilever bending ▪ Shearing ▪ Tension ▪ Compression/penetration
Additional measurement modes	<ul style="list-style-type: none"> ▪ Iso-strain ▪ TMA mode ▪ Creep / relaxation ▪ Stress / strain sweep
Sample geometries	Dependent on the deformation mode, e.g., for 3-point bending maximum sample dimensions: length: 60 mm, width: 12 mm, thickness: 5 mm
Optional accessories	<ul style="list-style-type: none"> ▪ Immersion bath ▪ Humidity generator ▪ UV equipment ▪ Dielectric Analyzer (DEA)