























Rheological Parameters								
		FLUIDS	S TESTING					
	Parameter	Shear	Elongation	Units				
	Rate	Ϋ́	3	Seconds ⁻¹				
	Stress	σ	τ	Pascals				
	Viscosity	$\eta = \sigma / \dot{\gamma}$	$\eta_{\rm E} = \tau/\dot{\epsilon}$	Pascal-seconds				
	Parameter	Shear	Elongation	Units				
	Strain	γ	3	Unitless				
	Stress	σ	τ	Pascals				
	Modulus	$G(t) = \sigma/\gamma$	$E = \tau/\epsilon$	Pascals				











































Geometry Diameter (mm) Degree Gap (micron) Sample Volume (mL) Max Shear Rate (approx) 1/s 0 1000 0.05 0.03 1.20E+03 1.20E+03 0 500 0.03 1.20E+03 1.20E+03 1.20E+03 2 52 4.68E+03 2 2.4E-03 2 2 52 4.68E+03 2 3.00E+03 2 52 4.68E+03 2 3.00E+03 2 52 4.68E+03 2 3.00E+03 20 1 28 0.04 1.72E+04 2 52 0.07 8.00E+03 4 104 0.15 18 0.04 2 52 0.17 8.00E+03 4 104 0.129 3.75E+03 0 10000 0.49 3.75E+03 0.5 18 0.04 1.72E+04 2 52 0.14 4 40 1.028 0.29 1.72E+04	n) Sample Max Shear F (approx) 1. 0.05 1.20E+03 0.03 1.17E-03 2.34E-03 4.68E-03	Gap (micron) 1000 500	Degree 0	Diameter (mm)	ometry Diam
Barallel Plate 0 1000 0.03 1.20E+03 0 500 0.03 1.20E+03 0 0 500 0.03 1.20E+03 0 1 28 2.34E+03 2 52 4.8E+03 2 52 4.8E+03 2 3.4E+04 0 10000 0.31 3.00E+03 3.00E+03 2 52 0.04 1.72E+04 2 2 52 0.07 8.6B+03 4 0 10000 0.49 3.75E+03 0 0 10000 0.49 3.75E+03 0 0.5 18 0.04 1.72E+04 2 0.5 1 28 0.07 8.60+03 2 52 0.14 0 1.26 6.00E+03 0.5 18 0.15 3.44E+04 0.59 8.60+03 40 1 28 0.29 1.72E+04 2 52 0.59	0.05 1.20E+03 0.03 1.17E-03 2.34E-03 4.68E-03	1000 500	0		ennou y Diann
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2 52 4.68E-03 4 104 9.37E-03 0 1000 0.31 3.00E+03 0.5 18 0.02 3.44E+04 2 52 0.07 8.60E+03 2 52 0.07 8.60E+03 4 104 0.15 4.4E+04 2 52 0.07 8.60E+03 4 104 0.15 4.30E+03 4 104 0.15 4.30E+03 4 104 0.15 4.30E+03 2 52 0.07 8.60E+03 0.5 18 0.04 3.75E+03 2 52 0.14 2 4 104 0.29 - 40 1 28 0.29 1.72E+04 2 52 0.59 8.60E+03 0.5 18 0.15 3.44E+04 1 28 0.29 1.72E+04 2 52	4.68E-03	28	1		
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20 1 28 0.04 1.72E+04 2 52 0.07 8.00E+03 4 4 104 0.15 4.30E+03 4 104 0.15 4.30E+03 4 104 0.15 4.30E+03 0 1000 0.49 3.75E+03 0.5 18 0.04 1 2 52 0.14 1 4 104 0.29 1 0.5 18 0.15 3.44E+04 0.5 18 0.15 3.44E+04 0.5 18 0.15 3.44E+04 1 28 0.29 1.72E+04 2 52 0.59 8.60E+03 4 104 1.17 4.30E+03	0.02 3.44E+04	18	0.5		
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Operation Operation <t< td=""><td>0.49 3.75E+03</td><td>1000</td><td>0</td><td rowspan="5">25</td><td></td></t<>	0.49 3.75E+03	1000	0	25	
and Cone and Plate 25 1 28 0.07 2 552 0.14 - 4 104 0.29 - 0 1000 1.26 6.00E+03 40 1 28 0.29 1.72E+04 2 552 0.59 8.60E+03 4 104 1.17 4.30E+03	0.04	18	0.5		llel Plate
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0.5 18 0.15 3.44E+04 1 28 0.29 1.72E+04 2 52 0.59 8.60E+03 4 104 1.17 4.30E+03	1.26 6.00E+03	1000	0		
40 1 28 0.29 1.72E+04 2 552 0.59 8.60E+03 4 104 1.17 4.30E+03	0.15 3.44E+04	18	0.5		
2 52 0.59 8.60E+03 4 104 1.17 4.30E+03	0.29 1.72E+04	28	1	40	
4 104 1.17 4.30E+03	0.59 8.60E+03	52	2		
	1.17 4.30E+03	104	4		
0 1000 2.83 9.00E+03	2.83 9.00E+03	1000	0		
0 500 1.41	1.41	500	0		
60 0.5 18 0.49 3.44E+04	0.49 3.44E+04	18	0.5	60	
1 28 0.99 1.72E+04	0.99 1.72E+04	28	1		
2 52 1.97 8.60E+03	1.97 8.60E+03	52	2		
4 104 3.95 4.30E+03	3.95 4.30E+03	104	4		
Conical Din Rotor 19.6 4.36E+03				Conical Din Rotor	Conica
Concentric Recessed End 6.65 4.36E+03	19.6 4.36E+03			Recessed End	ncentric Rece
Cylinder Double Wall 11.65 1.59E+04	19.6 4.36E+03 6.65 4.36E+03			Double Wall	vlinder Dou
Pressure Cell 9.5	19.6 4.36E+03 6.65 4.36E+03 11.65 1.59E+04			Description Ordi	





Geometry	Examples
Concentric Cylinder	Coatings Beverages Slurries (vane rotor option) Starch pasting
Cone and Plate	Low viscosity fluids Viscosity standards Sparse materials Polymer melts in steady shear
Parallel Plate	Widest range of materialsAdhesivesPolymer meltsHydrogelsAsphaltCuring of thermosetting materialsFoodsCosmetics
Torsion Rectangular	Thermoplastic solids Thermoset solids

Г

Geon	netry Ov	erview		
	Geometry	Application	Advantage	Disadvantage
	Cone/plate	fluids, melts viscosity > 10mPas	true viscosities	temperature ramp difficult
	Parallel Plate	fluids, melts viscosity > 10mPas	easy handling, temperature ramp	shear gradient across sample
	Couette	low viscosity samples < 10 mPas	high shear rate	large sample volume
	Double Wall Couette	very low viscosity samples < 1mPas	high shear rate	cleaning difficult
	Torsion Rectangular	solid polymers, composites	glassy to rubbery state	Limited by sample stiffness
	DMA	Solid polymers, films, Composites	Glassy to rubbery state	Limited by sample stiffness (Oscillation and stress/strain)







vironmental Control nperature 25 °C ☐ Inherit Set Point ik Trne 00.02.00 hh.mm.ss ☑ Wait For Temperature	Environmental Control Temperature Soak Time 00:00:00 hhumm ss Wait For Temperature
nperature 25 °C Inherit Set Point ak Time 00.02.00 hh.mm.ss Vait For Temperature	Soak Time 00:00:00 hh.mm:ss Wait For Temperature
ak Time 00:02:00 hh:mm:ss	Soak Time 00:00:00 nn:mm:ss wait for temperature
st Parameters	Test Parameters
ation 00:01:40 hh:mm:ss	Duration 00:01:40 hh:mm:ss
de O Linear O Log	Mode C Linear C Log
ial shear rate 0.0 to final 100.0 1/s 🔻	Initial shear rate 100.0 to final 0.0 1/s 🔻
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impling interval 1.0 s/pt 🔻	Sampling interval 1.0 s/pt -
	Controlled Rate Advanced
Controlled Nate Advanced	Data acquisition
Determination .	
Data acquisition End of step	End of step
	> Data acquisition





		ield Stress	Detern	nination
1: Flow Ramp				
Environmental Control				
Femperature Seek Time	25 °C	Wait For Tomporature		
Soak Time	00:02:00 nn:mm:ss			
Test Parameters				
Duration	00:01:40 hh:mm:ss	3		
Mode	© Linear C	Log		
Initial stress	0.0 to final	10.0 Pa 🔻		
Inherit initial value				
Inherit duration				
Complian interval	10			
Sampling interval	1.0 s/pt 💌			
Sampling interval	1.0 s/pt			
Controlled Stress A Data acquisition	1.0 s/pt			
Controlled Stress A Data acquisition End of step	1.0 s/pt			
Controlled Stress A Data acquisition End of step Zero velocity	1.0 s/pt •			
Sampling interval Controlled Stress A Data acquisition End of step Zero velocity	1.0 s/pt v dvanced			
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Sampling interval Controlled Stress A Data acquisition End of step Zero velocity Save image Step termination	1.0 s/pt v dvanced			
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Sampling interval Controlled Stress A Data acquisition End of step Zero velocity Save image Step termination Unit checking V Enabled	1.0 s/pt v udvanced			
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Controlled Stress A Controlled Stress A Data acquisition End of step Zero velocity Save image Step termination Limit checking Genbled Terminate step whee Shear rate (1/s)	an	¥ 10.0 1/s		
Controlled Stress A Controlled Stress A Data acquisition End of step Zero velocity Save image Save image Save image Jero velocity Limit checking V. Enabled Terminate step whe Shear rate (1/s)	n	y 10.0 1/s		
Controlled Stress A Controlled Stress A Data acquisition End of step Zero velocity Save image Step termination Limit checking V: Enabled Terminate step whe Shear rate (1/s)	n 1.0 s/pt v vdvanced	1 0.0 1/s		







Steady State Flow Test	
 ▲ 1: Flow Sweep Environmental Control Temperature Soak Time (00.02:00 bh mm:ss Wait For Temperature 	
Test Parameters	
Steady state sensing Max. equilibration time 00:01:00 hh:mm:ss Sample period 00:00:05 hh:mm:ss % tolerance 5.0 Consecutive within 3 Scaled time average	

























Stress Rela	xation		
1: Step (Transient) Str Environmental Contro Temperature	ess Relaxation	Inherit Set Point	
Soak Time Test Parameters Duration	00:02:00 hh:mm:ss	Wait For Temperature	
% Strain	0.1 %	<u>•</u>	
Strain rise time 0.0	1s		
Fast sampling			



Creep and Recovery	
1: Step (Transient) Creep Environmental Control Temperature Soak Time 00.02.00 hh:mm:ss Wait For Temperature	2: Step (Transient) Creep Environmental Control Temperature 25 °C Inherit Set Point Soak Time 00.02.00 hh.mm:ss VWait For Temperature
Test Parameters Duration 00:01:40 hh.mm:ss Stress 10:0 Pa	Test Parameters Duration 00.01:40 hh:mm:ss Stress 0.0 Pa
► Data acquisition Save image Fast sampling	Steedy state sensing













Parameter	Shear	Elongation	Units	
Strain	$\gamma = \gamma_0 \sin(\omega t)$	ε = ε _o sin(ωt)		
Stress	$σ = σ_0 sin(ωt + δ)$	$τ = τ_0 sin(ωt + δ)$	Ра	
Storage Modulus (Elasticity)	$G' = (\sigma_0/\gamma_0)cos\delta$	E' = (τ ₀ /ε ₀)cosδ	Ра	
Loss Modulus (Viscous Nature)	$G'' = (\sigma_0/\gamma_0) sin\delta$	$E"=(\tau_0/\epsilon_0)sin\delta$	Ра	
Tan δ	G"/G'	E"/E'		
Complex Modulus	G* = (G' ² +G'' ²) ^{0.5}	E* = (E ² +E ²) ^{0.5}	Ра	
Complex Viscosity	η* = G*/ω	η _E * = E*/ω	Pa-sec	



Dynamic Stress Sweep	
 ▲ 1: Oscillation Amplitude Environmental Control Temperature 25 'C Inherit Set Point Soak Time 00.02.00 hh mm.ss Wait For Temperature Test Parameters Frequency 1.0 Hz Image: Torque 0.01 to 10000.0 uN.m Points per decade Step termination Limit checking Controlled flow Step termination Unit checking Controlled stress ty when Oscillation strain (%) Y 	






Dynamic Time Swee	p for Curing
 ▲ 1: Conditioning Options Avial force adjustment Mode G Tension C Compression Avial force Sensitivity 02 N Advanced Gap change limit up Gap change limit down Gap change limit down Gap change limit down C Return to initial value Purge gas only (no active cooling) Auto strain adjustment Mode Disabled ▼ 	2: Oscillation Time Environmental Control Temperature Soak Time 0000000 hhmm.ss Wait For Temperature Test Parameters Uuration 01640 hhmm.ss Sampling interval 100 strain % 0.1 \$strain % • Controlled Strain Advanced Interative sampling Interative sampling Lower torque limit 1.0 u/km Number of tries 1.0 ½ 1.0 ½ 1.0 ½ 1.0 ½ 1.0 ½









Frequency Sweep	
A 1: Oscillation Frequency Environmental Control Temperature Soak Time 00:02:00 hh.mm.ss ✓ Wait For Temperature	
Test Parameters	
Angular frequency 100.0 to 0.1 red/s Points per decade 5	





























Property	Rheological Properties	Practical Adhesive Property
Tack	 Low tan δ and Low G' Low Cross-links (G" > G' @ ~1 Hz) 	High Tack
Shear Resistance	High G' @ < 0.1 Hz High Viscosity @ Low Shear Rates	
Peel Strength	• High G" @ ~> 100 Hz	High Peel Strength
Cohesive Strength	 High G', low tan δ 	High Cohesive Strength
Adhesive Strength	 High G", high tan δ 	High Adhesion Strength with Surface































Discovery Hy	/brid R	heome	eter Spe	ecification	S
Specification	HR-3	HR-2	HR-1		
Bearing Type, Thrust	Magnetic	Magnetic	Magnetic		
Bearing Type, Radial	Porous Carbon	Porous Carbon	Porous Carbon		
Motor Design	Drag Cup	Drag Cup	Drag Cup		HR-3
Minimum Torque (nN.m) Oscillation	0.5	2	10	HR-2	1113
Minimum Torque (nN.m) Steady Shear	5	10	20	HR-1	
Maximum Torque (mN.m)	200	200	150		
Torque Resolution (nN.m)	0.05	0.1	0.1		
Minimum Frequency (Hz)	1.0E-07	1.0E-07	1.0E-07		
Maximum Frequency (Hz)	100	100	100		
Minimum Angular Velocity (rad/s)	0	0	0		
Maximum Angular Velocity (rad/s)	300	300	300	ALL CITY	
Displacement Transducer	Optical	Optical	Optical		
	encoder	encoder	encoder		
Optical Encoder Dual Reader	Standard	N/A	N/A		
Displacement Resolution (nrad)	2	10	10	-	
Step Time, Strain (ms)	15	15	15		
Step Time, Rate (ms)	5	5	5		
Normal/Axial Force Transducer	FRT	FRT	FRT	DHR - DMA mode	(optional)
Maximum Normal Force (N)	50	50	50	Motor Control	FRT
Normal Force Sensitivity (N)	0.005	0.005	0.01	Minimum Force (N) Oscillation Maximum Axial Force (N)	50
Normal Force Resolution (mN)	0.5	0.5	1	Minimum Displacement (µm)	1.0
. ,			I	Maximum Displacement (µm)	100
				Displacement Resolution (nm)	10
				Axial Frequency Range (Hz)	1 x 10 ⁻⁵ to 16















DMA Capabili	ties	
	Motor Control	Force Rebalance Transducer
	Minimum Force in Oscillation	0.1 N
	Maximum Axial Force	50 N
	Minimum Displacement in Oscillation	1 μm
	Maximum Displacement in Oscillation	100 μm
	Displacement Resolution	10 nm
	DHR 1::In/Fiber Tension Clamp DHR 3-Point Bending Clamp Ac DHR Cantilever Bending Clamp	Accessory kit Accessory kit
	The DMA capabilities of the DHF are unique for commercial rheon	and ARES-G2 neters.







	RSA G2	DMA 850	ARES G2 DMA	DHR DMA (optional)
Max Force	35N	18N	20N	50N
Min Force	0.0005N	0.0001N	0.001N	0.1N
Frequency Range	1e-5 to 628 rad/s (1.6e-6 to 100 Hz)	6.28e-3 to 1250 rad/s (0.001 to 200 Hz)	6.3e ⁻⁵ to 100 rad/s (1.0e ⁻⁵ to 16 Hz)	6.3e ⁻⁵ to 100 rad/s (1.0e ⁻⁵ to 16 Hz)
Dynamic Deformation Range	+/- 0.05 to 1,500µm	+/- 0.005 to 1e4 μm	+/- 1 to 50 μm	+/- 1 to 100 μm
Control Stress/Strain	Control Strain (SMT)	Control Stress (CMT)	Control Strain (CMT)	Control Stress (CMT)
Heating Rate	0.1°C to 60°C/min	0.1°C to 20°C/min	0.1°C to 60°C/min	0.1°C to 60°C/mir
Cooling Rate	0.1°C to 60°C/min	0.1°C to 20°C/min	0.1°C to 60°C/min	0.1°C to 60°C/mir









UV LED Curing Accessory



- Mercury bulb alternative technology
- \cdot 365 nm wavelength with peak intensity of 150 mW/cm^2
- 455 nm wavelength with peak intensity of 350 $\rm mW/\rm cm^2$
- No intensity degradation over time
- Even intensity across plate diameter
- Compact and fully integrated design including power, intensity settings and trigger
- Cover with nitrogen purge ports
- Optional disposable Acrylic plates

UV Curing Procedure	
* Procedure: Proposed UV cure test	
1: Conditioning Options Axial force adjustment Mode Active © Tension Compression Axial force 0.0 N © Set initial value Sensitivity 0.2 N Advanced Auto strain adjustment Mode Disabled	
2: Conditioning UV Curing UV Shutter Control	
UV power level 25.0 %	
Delay before UV shutter open 00:00:30 hh.mm:ss	
UV shutter open time 00:00:10 hh.mm:ss	

UV Curing Procedu	Jre
> 3: Oscillation Time Temporature ZS "C Inherit Set Point Sok Time 00:00:00 hh.mm.ss Uration 00:00:25 hh.mm.ss Duration 5.0 Simpling interval 5.0 Single point • Frequency 10.0 Hz •	S: Oscillation Time Environmental Control Temperature Soak Time 000000 hth.mm.ss Test Parameters Duration Sampling interval 5.0 Strain % 0.05<%
4: Oscillation Fast Sampling Environmental Control G Isothermal Control Temperature 25 'C Inherit set point Sock time 00:00:00 hh mm ss West for temperature Test Parameters 00:00:40 hh mm ss Single point Fequency 10:0 He	TAINSTRUMENTS.COM




































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Service Support Helpline Site Preparation Guides The IQ/OQ Product Offering Calibration with Certified Standards Safety Data Sheets Supported Instruments Service Shop	Applications Support Helpline Tech Tips Applications Notes Library Training	Software Downloads Instruments sorted by software Software Sorted by Instruments Report a Bug Request a Feature	Lifetime Support Plan Premium Support Plan Plus Support Plan Basic Support Plan Performance Maintenance Visit (PMV) Academic Support Plan ElectroForce Support Plans









Thank You

The World Leader in Thermal Analysis, Rheology, and Microcalorimetry

