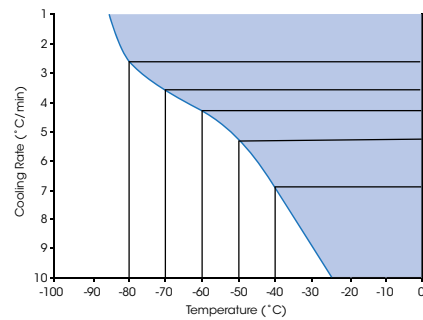




DISCOVERY HYBRID RHEOMETERS
TEMPERATURE SYSTEMS AND ACCESSORIES

Air Chiller System (ACS-3)

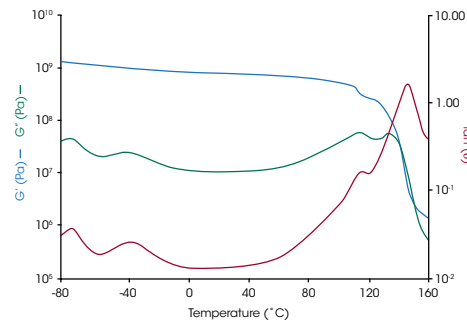
The new Air Chiller System, ACS-3, is a unique gas flow cooling system that enables temperature control of the Environmental Test Chamber to temperatures as low as -85 °C. Equipped with a three-stage cascading compressor design, the ACS-3 allows for low temperature environmental control without the use of liquid nitrogen, instead utilizing compressed air (7 bar, 200 L/min) as the cooling medium. The ACS-3 can help eliminate or reduce liquid nitrogen usage and associated hazards from any laboratory and offers an incredible return on investment.



Features and Benefits

- Safe: eliminates the need for liquid nitrogen or other refrigerated gases
- Convenient: never change, refill, or order another tank of liquid nitrogen. The ACS-3 is ready to run whenever you are.
- Small: occupies less space than equivalent liquid nitrogen cooling systems.
- Affordable: provides considerable cost savings over recurring gas deliveries.

ABS/PC Blend Temperature Ramp



Low Temperature Polymer Transitions

Polymers are often blended to produce a desirable combination of toughness, modulus, and processing characteristics. One such combination is a blend of polycarbonate (PC) with acrylonitrile butadiene styrene (ABS). The ACS-3 provides a sufficient range of temperature control to characterize the multiple low and high temperature transitions of this multi-component sample. The data in the figure were collected during a temperature ramp with a rectangular specimen in torsion.

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