Environmental Stress Cracking Resistance Tester (ESCR)

Product Info :

Environmental stress cracking resistance tester (ESCR) is an ideal testing instrument that can be used for testing the impact of environmental factors on plastic products and materials. When we are talking about the industrial usage of different materials, it must be kept in mind that there are many factors that can make the environment of the industries very harsh and difficult to work with. There is humidity, moisture, chemical fumes and so forth that can have a deep impact on the quality and life cycle of different materials. This is why before starting the use of any material in a particular environment, it is essential for the manufacturers to test the behaviour of that particular material under such working conditions. This helps in assessment of the challenges that might be faced when the material is used in actual conditions. For this they need to test the impact of the environmental factors on the materials and assess those impacts in detail.

ESCR is one of the most suitable testing apparatus that can be used for testing the quality of materials and impact of the environmental factors on the materials that are used in industries. The materials like rubber, polymers and plastic are used extensively in different industries having different environmental conditions. It is essential that the manufacturers ensure that these different environments do not have any adverse effect on the materials so that they could function perfectly without any failure. The ESCR manufacturers and suppliers provide a machine that simulates the conditions that are faced by the materials in different industries such as the moisture, humidity, chemical fumes, acidity and physical tension. It is an ideal equipment that can be used for testing the impact of agents such as soaps, detergents, wetting agents, oils and so forth. The outer body of the apparatus is zinc plated and has a grey finish for better corrosion resistance.

TECHNICAL DATA :

- Model: PCESCRT-1
- Size: Inner Bath 12” x 14” x 12”
- Material of Construction: Inner Bath S.S. outer M.S.
- Temperature Controller: Microprocessor Based digital Auto tunnel PID controller with range up to 200ËšC Resolution of 0.1ËšC & accuracy of ± 0.5ËšC
- Heating Load: As per required of Bath
- Circulation: Induction motor with stirrer.
- Testing Capacity: Six tests at a time.
- Accessories: Cutting Die, Nicking Jig, bending cum Transfer tool and Specimen holder, Test tube and rubber cork-6 nos. each.
- Power: 230V AC, 1 Phase, 50 Hz.
- Paint: Powder Coating.
- Solution for test Igepal. (Arrange By Customer)

FEATURES :

- Temperature controlled through PID controller
- Advanced Digital Microprocessor based PID based temperature controller
- Provision of Set Value(SV) and Process Value(PV) on temperature display
- Inbuilt Auto tuning function
- Equipped with rapid heaters for uniform and homogenous heating and maintaining temperature inside the chamber
- Integral water drain system
- Inbuilt Calibration features with reference to master PID controller
- Stirrer motor for precise stirring of sample inside the tank and uniformity of temperature
- A set of Test tubes along with fixture to hold samples inside the tank
- Standard: ASTM D1693

Our Valuable Customer

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