Among Seiren’s newly developed EMI shield-related products is a transparent EMI shield case equipped with a successful combination of both transparency and EMI shieldability, not found in its conventional counterpart.

**Structure**

The Seiren’s newly developed product is its original transparent electrically conductive fabric and transparent resin integrally molded into a transparent EMI shield case, allowing:

- Good visual recognition of characters on the case, as well as its interior; and
- Elimination of need for post-processing for EMI shield otherwise required as in its corresponding conventional one.

The conventional product is a transparent resin case with a punching metal retrofitted thereto, having the disadvantages of:

- Not allowing visual recognition of characters on the case; and
- Requiring an additional process of retrofitting the punching metal to the case.

**Features**

- **High EMI shieldability**
  - [Electric field] 35.3dB (at 100MHz), 47.3dB (at 1GHz)
  - [Magnetic field] 29.3dB (at 100MHz), 28.1dB (at 1GHz)
  - The above data are based on the measurements made on S70-4110CW using the KEC method.
- **High light transmittance**
  - Visible light transmittance 75%
  - For Seiren’s original conductive fabric integrally molded with polycarbonate resin 2mm in thickness into
- **Process simplification**
  - Use of Seiren’s original electrically conductive fabric, allowed to be integrally molded with transparent resin into a transparent EMI shield case, achieving process simplification for manufacturing of such an EMI shield case.
- **Air permeability**
  - Use of Seiren’s original electrically conductive fabric, air permeable, when integrally molded with resin into an EMI shield case, causing no interference with any countermeasure against heat generation of the case.
- **Weight reduction**
  - Use of Seiren’s original electrically conductive fabric, light in weight, when integrally molded with resin into an EMI shield case, allowing weight reduction of the case compared to its counterpart using a punching metal or steel plate.

**Applications**

- Transparent resin case requiring shielding against electromagnetic interference (EMI)
- Transparent resin case requiring protection against static electricity