

# STAREX VH-0819

Flame-retardant ABS material with the characteristic of high flow that can be used for the exterior material of large TV and OA devices

|                   | Properties                               | Test condition                  | Method      | Unit              | Value        |
|-------------------|--|---------------------------------|-------------|-------------------|--------------|
| Flammability      | Flammability                             | V-0                             | UL94        | mm                | 2.1-2.3, 3.0 |
|                   | Flammability                             | 5VB                             | UL94        | mm                | 3            |
| Physical          | Specific Gravity                         | Natural or Representative Color | ISO 1183    | -                 | 1,16         |
|                   | Melt Flow Index                          | 200°C, 5kg                      | ISO 1133    | g/10min           | 8            |
| Thermal           | Heat Deflection Temperature (unannealed) | 1.8 MPa, 4.0mm                  | ISO 75-2    | °C                | 70           |
|                   | Heat Deflection Temperature (unannealed) | 0.45 MPa, 4.0mm                 | ISO 75-2    | °C                | 79           |
|                   | Vicat Softening Temperature              | B/50                            | ISO R 306   | °C                | 85           |
|                   | Vicat Softening Temperature              | B/120                           | ISO R 306   | °C                | 87           |
| Mechanical        | Tensile Strength at Yield                | 50mm/min                        | ISO 527     | MPa               | 42           |
|                   | Tensile Strain at Break                  | 50mm/min                        | ISO 527     | %                 | 10           |
|                   | Tensile Modulus                          | 50mm/min                        | ISO 527     | MPa               | 2200         |
|                   | Tensile Strength at Break                | 50mm/min                        | ISO 527     | MPa               | 32           |
|                   | Flexural Strength                        | 2mm/min                         | ISO 178     | MPa               | 67           |
|                   | Flexural Modulus                         | 2mm/min                         | ISO 178     | MPa               | 2300         |
|                   | Izod Impact Strength (notched)           | at 23°C, 4mm                    | ISO 180 1A  | KJ/m <sup>2</sup> | 22           |
|                   | Charpy Impact Strength (V-notched)       | 23°C, 4mm                       | ISO 179 1eA | KJ/m <sup>2</sup> | 25           |
| Rockwell Hardness | R-scale                                  | ISO 2039-2                      | -           | 105               |              |