

# Starex VE-1890 K

High Impact Polystyrene

LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Starex VE-1890 K is a high impact polystyrene product. It is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.  
Features include:  
flame retardant/rated flame  
Flame Retardant

| General Information                                |                  |                   |                      |
|----------------------------------------------------|------------------|-------------------|----------------------|
| UL YellowCard                                      | E115797-544031   |                   |                      |
| Features                                           | Flame retardancy |                   |                      |
| Physical                                           | Nominal Value    | Unit              | Test Method          |
| Specific Gravity (Natural)                         | 1.15             | g/cm <sup>3</sup> | ASTM D792, ISO 1183  |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)           | 13               | g/10 min          | ASTM D1238, ISO 1133 |
| Molding Shrinkage                                  |                  |                   |                      |
| Flow: 3.20mm                                       | 0.20 - 0.60      | %                 | ASTM D955            |
| Transverse flow: 3.20mm                            | 0.20 - 0.60      | %                 | ASTM D955            |
| Lateral flow: 3.20mm                               | 0.20 - 0.60      | %                 | ISO 2577             |
| Traffic: 3.20mm                                    | 0.20 - 0.60      | %                 | ISO 2577             |
| Hardness                                           | Nominal Value    | Unit              | Test Method          |
| Rockwell Hardness                                  |                  |                   |                      |
| Class r                                            | 96               |                   | ASTM D785            |
| R scale                                            | 96               |                   | ISO 2039-2           |
| Mechanical                                         | Nominal Value    | Unit              | Test Method          |
| Tensile Modulus                                    | 2100             | MPa               | ISO 527-2/50         |
| Tensile Strength                                   |                  |                   |                      |
| Yield <sup>1</sup>                                 | 20.0             | MPa               | ASTM D638            |
| Yield                                              | 24.0             | MPa               | ISO 527-2/50         |
| Fracture                                           | 20.0             | MPa               | ISO 527-2/50         |
| Tensile Strain (Break)                             | 33               | %                 | ISO 527-2/50         |
| Flexural Modulus                                   |                  |                   |                      |
| -- <sup>2</sup>                                    | 1600             | MPa               | ASTM D790            |
| -- <sup>3</sup>                                    | 1700             | MPa               | ISO 178              |
| Flexural Strength                                  |                  |                   |                      |
| -- <sup>4</sup>                                    | 26.0             | MPa               | ASTM D790            |
| -- <sup>5</sup>                                    | 37.0             | MPa               | ISO 178              |
| Impact                                             | Nominal Value    | Unit              | Test Method          |
| Charpy Notched Impact Strength <sup>6</sup> (23°C) | 11               | kJ/m <sup>2</sup> | ISO 179/1eA          |
| Notched Izod Impact                                |                  |                   |                      |
| 23°C, 3.18 mm                                      | 98               | J/m               | ASTM D256            |

|                               |                |       |              |
|-------------------------------|----------------|-------|--------------|
| 23°C <sup>7</sup>             | 11             | kJ/m² | ISO 180/1A   |
| Thermal                       | Nominal Value  | Unit  | Test Method  |
| Heat Deflection Temperature   |                |       |              |
| 0.45 MPa, unannealed, 4.00mm  | 79.0           | °C    | ISO 75-2/B   |
| 0.45 MPa, annealing, 4.00mm   | 84.0           | °C    | ISO 75-2/B   |
| 1.8 MPa, unannealed, 6.40mm   | 72.0           | °C    | ASTM D648    |
| 1.8 MPa, not annealed, 4.00mm | 68.0           | °C    | ISO 75-2/A   |
| 1.8 MPa, annealing, 4.00mm    | 79.0           | °C    | ISO 75-2/A   |
| Vicat Softening Temperature   |                |       |              |
| --                            | 82.0           | °C    | ISO 306/B50  |
| --                            | 85.0           | °C    | ISO 306/B120 |
| Flammability                  | Nominal Value  |       | Test Method  |
| Flame Rating                  |                |       | UL 94        |
| 1.5 mm                        | V-1            |       | UL 94        |
| 2.0 mm                        | V-0            |       | UL 94        |
| NOTE                          |                |       |              |
| 1.                            | 20 mm/min      |       |              |
| 2.                            | 2.8 mm/min     |       |              |
| 3.                            | 2.0 mm/min     |       |              |
| 4.                            | 2.8 mm/min     |       |              |
| 5.                            | 2.0 mm/min     |       |              |
| 6.                            | Thickness: 4mm |       |              |
| 7.                            | Thickness: 4mm |       |              |

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