

VECTOR[®] 4186AS Styrene-Isoprene (SI)_n/SI Block Copolymer

VECTOR[®] 4186AS styrenic block copolymer is a radial block copolymer with a narrow molecular weight distribution.

The product exhibits the following characteristics:

- Low styrene content, excellent adhesion to low surface energy materials, low migration and enhanced die cutting.
- Well-suited for use in low viscosity hot melt pressure-sensitive adhesive.
- VECTOR[®] 4186AS is offered as a dense pellet supplied from the United States.

| Polymer Properties | Test Method | Unit | Typical Value ⁽¹⁾ |
|--|-------------|---------|------------------------------|
| Specific Gravity | ASTM D792 | - | 0.93 |
| Hardness ⁽²⁾ | ASTM D2240 | Shore A | 28 |
| Tensile at Break ⁽³⁾ | ISO 37 | MPa | 2.4 |
| Stress at 300% Elongation ⁽³⁾ | ISO 37 | MPa | 1.9 |
| Elongation at Break ⁽³⁾ | ISO 37 | % | 700 |
| Solution Viscosity ⁽⁴⁾ | ASTM D2196 | cps | 540 |

| Sales Specification | Test Method | Unit | Range | |
|----------------------------|-------------|----------|-------|------|
| | | | Min | Max |
| Styrene | TSRC Method | wt% | 17.0 | 18.5 |
| Diblock Content | TSRC Method | wt% | 70.0 | 75.0 |
| Volatile Matter | TSRC Method | wt% | 0.0 | 0.50 |
| Ash | ASTM D5630 | wt% | 0.10 | 0.35 |
| Melt Flow Rate (200°C/5kg) | ASTM D1238 | g/10 min | 17.0 | 26.0 |

- 1) Typical values intended only as guides and should not to be construed as specifications
 2) Dwell time - 1 second
 3) Roll-milled, compression-molded plaques
 4) 25 wt% in Toluene; 25°C

