

# Stylac™ VA518

Acrylonitrile Butadiene Styrene  
Asahi Kasei Chemicals Corporation

Message:

Stylac™ VA518 is an Acrylonitrile Butadiene Styrene (ABS) product. It is available in Africa & Middle East, Asia Pacific, or Europe.  
Characteristics include:  
Flame Rated  
Flame Retardant

| General Information |                 |
|---------------------|-----------------|
| UL YellowCard       | E171626-225607  |
| Additive            | Flame Retardant |
| Features            | Flame Retardant |
|                     | Halogenated     |

| Physical                                    | Nominal Value | Unit                   | Test Method |
|---------------------------------------------|---------------|------------------------|-------------|
| Density (23°C)                              | 1.19          | g/cm <sup>3</sup>      | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)   | 58            | g/10 min               | ISO 1133    |
| Melt Volume-Flow Rate (MVR) (220°C/10.0 kg) | 58.0          | cm <sup>3</sup> /10min | ISO 1133    |
| Molding Shrinkage - Flow                    | 0.40 to 0.60  | %                      | ASTM D955   |

| Mechanical                    | Nominal Value | Unit | Test Method  |
|-------------------------------|---------------|------|--------------|
| Tensile Stress (Yield)        | 41.8          | MPa  | ISO 527-2/50 |
| Flexural Modulus <sup>1</sup> | 2400          | MPa  | ISO 178      |
| Flexural Stress <sup>2</sup>  | 70.5          | MPa  | ISO 178      |

| Impact                                | Nominal Value | Unit              | Test Method |
|---------------------------------------|---------------|-------------------|-------------|
| Charpy Notched Impact Strength (23°C) | 8.6           | kJ/m <sup>2</sup> | ISO 179     |

| Thermal                                           | Nominal Value | Unit | Test Method |
|---------------------------------------------------|---------------|------|-------------|
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 74.4          | °C   | ISO 75-2/A  |
| Vicat Softening Temperature                       | 89.9          | °C   | ISO 306/B   |
| RTI Elec                                          | 60.0          | °C   | UL 746      |
| RTI Imp                                           | 60.0          | °C   | UL 746      |
| RTI Str                                           | 60.0          | °C   | UL 746      |

| Flammability | Nominal Value | Test Method |
|--------------|---------------|-------------|
| Flame Rating |               | UL 94       |
| 1.50 mm      | V-0           |             |
| 2.00 mm      | 5VA           |             |

| NOTE |            |
|------|------------|
| 1.   | 2.0 mm/min |
| 2.   | 2.0 mm/min |

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