

# Stylac™ 190

Acrylonitrile Butadiene Styrene  
Asahi Kasei Chemicals Corporation

Message:

Stylac™ 190 is an Acrylonitrile Butadiene Styrene (ABS) product. It is available in Africa & Middle East, Asia Pacific, or Europe.  
Characteristics include:  
Flame Rated  
Good Stiffness

| General Information                               |                 |                        |              |
|---------------------------------------------------|-----------------|------------------------|--------------|
| UL YellowCard                                     | E171626-225522  |                        |              |
| Features                                          | Good Flow       |                        |              |
|                                                   | Good Stiffness  |                        |              |
| Uses                                              | General Purpose |                        |              |
| Physical                                          | Nominal Value   | Unit                   | Test Method  |
| Density (23°C)                                    | 1.06            | g/cm <sup>3</sup>      | ISO 1183     |
| Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)         | 23              | g/10 min               | ISO 1133     |
| Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)       | 24.1            | cm <sup>3</sup> /10min | ISO 1133     |
| Molding Shrinkage - Flow                          | 0.40 to 0.60    | %                      | ASTM D955    |
| Hardness                                          | Nominal Value   | Unit                   | Test Method  |
| Rockwell Hardness                                 |                 |                        |              |
| R-Scale                                           | 113             |                        | ISO 2039-2   |
| R-Scale, 2.50 mm                                  | 108             |                        |              |
| Mechanical                                        | Nominal Value   | Unit                   | Test Method  |
| Tensile Stress (Yield)                            | 52.9            | MPa                    | ISO 527-2/50 |
| Flexural Modulus <sup>1</sup>                     | 2600            | MPa                    | ISO 178      |
| Flexural Stress <sup>2</sup>                      | 83.0            | MPa                    | ISO 178      |
| Impact                                            | Nominal Value   | Unit                   | Test Method  |
| Charpy Notched Impact Strength (23°C)             | 11              | kJ/m <sup>2</sup>      | ISO 179      |
| Thermal                                           | Nominal Value   | Unit                   | Test Method  |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 81.8            | °C                     | ISO 75-2/A   |
| Vicat Softening Temperature                       | 101             | °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       |
| Ball Pressure Test <sup>3</sup>                   | 85              | °C                     | EMAC         |
| Flammability                                      | Nominal Value   |                        | Test Method  |
| Flame Rating (1.50 mm)                            | HB              |                        | UL 94        |

| NOTE |                           |
|------|---------------------------|
| 1.   | 2.0 mm/min                |
| 2.   | 2.0 mm/min                |
| 3.   | Registered Number: B-1556 |

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