

# Stylac™ 185

Acrylonitrile Butadiene Styrene  
Asahi Kasei Chemicals Corporation

Message:

Stylac™ 185 is an Acrylonitrile Butadiene Styrene (ABS) product. It is available in Africa & Middle East, Asia Pacific, or Europe. Typical application: High Temperature Applications.  
Characteristics include:  
Flame Rated  
Heat Resistant

| General Information                               |                               |                        |              |
|---------------------------------------------------|-------------------------------|------------------------|--------------|
| UL YellowCard                                     | E171626-225520                |                        |              |
| Features                                          | High Heat Resistance          |                        |              |
| Uses                                              | High Temperature Applications |                        |              |
| Physical                                          | Nominal Value                 | Unit                   | Test Method  |
| Density (23°C)                                    | 1.07                          | g/cm <sup>3</sup>      | ISO 1183     |
| Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)         | 1.9                           | g/10 min               | ISO 1133     |
| Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)       | 1.96                          | cm <sup>3</sup> /10min | ISO 1133     |
| Molding Shrinkage - Flow                          | 0.50 to 0.70                  | %                      | ASTM D955    |
| Hardness                                          | Nominal Value                 | Unit                   | Test Method  |
| Rockwell Hardness (R-Scale, 2.50 mm)              | 103                           |                        |              |
| Mechanical                                        | Nominal Value                 | Unit                   | Test Method  |
| Tensile Stress (Yield)                            | 44.5                          | MPa                    | ISO 527-2/50 |
| Flexural Modulus <sup>1</sup>                     | 2300                          | MPa                    | ISO 178      |
| Flexural Stress <sup>2</sup>                      | 75.8                          | MPa                    | ISO 178      |
| Impact                                            | Nominal Value                 | Unit                   | Test Method  |
| Charpy Notched Impact Strength (23°C)             | 15                            | kJ/m <sup>2</sup>      | ISO 179      |
| Thermal                                           | Nominal Value                 | Unit                   | Test Method  |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 102                           | °C                     | ISO 75-2/A   |
| Vicat Softening Temperature                       | 124                           | °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>                   | 120                           | °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                    |                        |              |

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