

## 【Inquiries】

AsahiKASEI Engineering Plastics Information Comprehensive Site

URL : <https://www.asahi-kasei-plastics.com/en/contact/>

# AsahiKASEI



## Stylac™ A3921

Asahi Kasei Corporation - Acrylonitrile Butadiene Styrene

Tuesday, March 19, 2024

### General Information

#### General

|                 |                                                |
|-----------------|------------------------------------------------|
| Material Status | • Commercial: Active                           |
| Availability    | • Africa & Middle East • Asia Pacific • Europe |
| Uses            | • High Temperature Applications                |

#### Other Documentation

|            |                       |
|------------|-----------------------|
| Literature | • <a href="#">SDS</a> |
|------------|-----------------------|

### ASTM & ISO Properties<sup>1</sup>

| 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)                | 10            | g/10 min               | ISO 1133     |
| Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)              | 11            | cm <sup>3</sup> /10min | ISO 1133     |
| Molding Shrinkage - Flow                                 | 0.50 to 0.70  | %                      | ASTM D955    |
| Mechanical                                               | Nominal Value | Unit                   | Test Method  |
| Tensile Stress (Yield)                                   | 48.0          | MPa                    | ISO 527-2/50 |
| Flexural Modulus <sup>2</sup>                            | 2750          | MPa                    | ISO 178      |
| Flexural Stress <sup>2</sup>                             | 84.0          | MPa                    | ISO 178      |
| Impact                                                   | Nominal Value | Unit                   | Test Method  |
| Charpy Notched Impact Strength (23°C)                    | 10            | kJ/m <sup>2</sup>      | ISO 179      |
| Hardness                                                 | Nominal Value | Unit                   | Test Method  |
| Rockwell Hardness (R-Scale, 2.50 mm)                     | 110           |                        |              |
| Thermal                                                  | Nominal Value | Unit                   | Test Method  |
| Deflection Temperature Under Load<br>1.8 MPa, Unannealed | 96.0          | °C                     | ISO 75-2/A   |
| Vicat Softening Temperature                              | 116           | °C                     | ISO 306/B    |
| RTI Elec                                                 | 60.0          | °C                     | UL 746B      |
| RTI Imp                                                  | 60.0          | °C                     | UL 746B      |
| RTI Str                                                  | 60.0          | °C                     | UL 746B      |
| Ball Pressure Test <sup>3</sup>                          | 105           | °C                     | EMAC         |
| Flammability                                             | Nominal Value | Unit                   | Test Method  |
| Flame Rating (1.5 mm)                                    | HB            |                        | UL 94        |

#### Disclaimer:

- Data shown are typical values obtained by proper testing methods and should not be used for specification purpose. Please use these data for selecting the most appropriate grade suitable for specific usage.

These data may be changed because of improvement in properties.

- Be sure to read the relevant SDS before handling and use, and always follow the Important Precautions.

- Do not use plastics in any of the following orally- or medically-related applications.

- Orally-related applications: any part, device or component which may come into direct oral contact or into direct contact with drinking foods or beverages.

For drinking water application, please consult Asahi Kasei Corporation.

- Medically-related applications: any part, device or component which may be used intracorporeally or which may in dialysis or other processes come into direct or indirect contact with body tissue, body fluids or transfusion fluids.

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#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 2.0 mm/min

<sup>3</sup> Registered Number: B-1534

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