

# RONFALIN® ASA 3351 U

Acrylonitrile Styrene Acrylate  
Engineering Plastics

## Product Description

An extrusion/injection molding grade of ASA with excellent fastness, good impact and UV stability. (Former name: RONFALIN A ASA A20U)

## General

|                   |                     |
|-------------------|---------------------|
| Features          | • UV Stabilized     |
| Processing Method | • Injection Molding |

| Physical                                        | Nominal Value (English)     | Nominal Value (SI)          | Test Method          |
|-------------------------------------------------|-----------------------------|-----------------------------|----------------------|
| Density                                         | 1.05 g/cm <sup>3</sup>      | 1.05 g/cm <sup>3</sup>      | ISO 1183/A           |
| Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)     | 5.00 cm <sup>3</sup> /10min | 5.00 cm <sup>3</sup> /10min | ISO 1133             |
| Molding Shrinkage                               | 0.40 to 0.70 %              | 0.40 to 0.70 %              | ISO 294-4            |
| Mechanical                                      | Nominal Value (English)     | Nominal Value (SI)          | Test Method          |
| Tensile Modulus                                 | 319000 psi                  | 2200 MPa                    | ISO 527-2/1A/1       |
| Tensile Stress (Yield)                          | 7250 psi                    | 50.0 MPa                    | ISO 527-2/1A/50      |
| Tensile Strain (Yield)                          | 3.5 %                       | 3.5 %                       | ISO 527-2/1A/50      |
| Impact                                          | Nominal Value (English)     | Nominal Value (SI)          | Test Method          |
| Charpy Notched Impact Strength (73°F (23°C))    | 12 ft·lb/in <sup>2</sup>    | 25 kJ/m <sup>2</sup>        | ISO 179/1eA          |
| Charpy Unnotched Impact Strength<br>73°F (23°C) | No Break                    | No Break                    | ISO 179/1eU          |
| Hardness                                        | Nominal Value (English)     | Nominal Value (SI)          | Test Method          |
| Ball Indentation Hardness (H 358/30)            | 8990 psi                    | 62.0 MPa                    | ISO 2039-1           |
| Thermal                                         | Nominal Value (English)     | Nominal Value (SI)          | Test Method          |
| Heat Deflection Temperature                     |                             |                             |                      |
| 66 psi (0.45 MPa), Unannealed                   | 212 °F                      | 100 °C                      | ISO 75-2/Bf          |
| 264 psi (1.8 MPa), Unannealed                   | 207 °F                      | 97.0 °C                     | ISO 75-2/Af          |
| Vicat Softening Temperature                     |                             |                             |                      |
| --                                              | 219 °F                      | 104 °C                      | ISO 306/A50          |
| --                                              | 205 °F                      | 96.0 °C                     | ISO 306/B50          |
| Electrical                                      | Nominal Value (English)     | Nominal Value (SI)          | Test Method          |
| Surface Resistivity                             | > 1.0E+15 ohms              | > 1.0E+15 ohms              | IEC 60093            |
| Volume Resistivity                              | > 1.0E+13 ohms·cm           | > 1.0E+13 ohms·cm           | IEC 60093            |
| Comparative Tracking Index (Solution A)         | 600 V                       | 600 V                       | IEC 60112            |
| Flammability                                    | Nominal Value (English)     | Nominal Value (SI)          | Test Method          |
| Burning Rate                                    |                             |                             |                      |
| 0.0787 in (2.00 mm)                             | < 3.9 in/min                | < 100 mm/min                | ISO 3795             |
| 0.0787 in (2.00 mm)                             | < 3.9 in/min                | < 100 mm/min                | FMVSS 302            |
| Flammability Classification                     |                             |                             | IEC 60695-11-10, -20 |
| 0.06 in (1.5 mm)                                | HB                          | HB                          |                      |
| 0.12 in (3.0 mm)                                | HB                          | HB                          |                      |

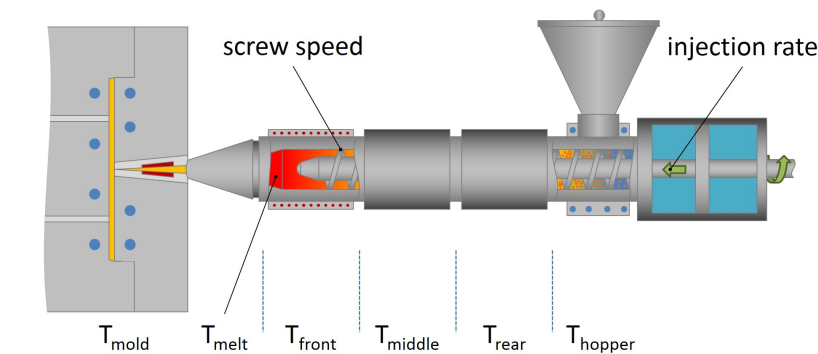
## Additional Information

- 1.) Not for use in food contact applications
- 2.) Not for use in medical or pharmaceutical applications



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| Injection              | Nominal Value (English) | Nominal Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature     | 176 °F                  | 80 °C              |
| Drying Time            | 2.0 to 4.0 hr           | 2.0 to 4.0 hr      |
| Suggested Max Regrind  | 30 %                    | 30 %               |
| Processing (Melt) Temp | 464 to 518 °F           | 240 to 270 °C      |
| Mold Temperature       | 104 to 176 °F           | 40 to 80 °C        |

Notes

These are typical property values not to be construed as specification limits.

