

Technical Data Sheet

# RONFALIN<sup>®</sup> ABS 1336 FC

Acrylonitrile Butadiene Styrene  
Engineering Plastics

**Product Description**

General purpose ABS Compound, good flow. Suitable for food contact use.

**General**

|                     |                     |
|---------------------|---------------------|
| Features            | • Good Flow         |
| Processing Method   | • Injection Molding |
| Resin ID (ISO 1043) | • ABS               |

| 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) | 32 cm <sup>3</sup> /10min | 32 cm <sup>3</sup> /10min | ISO 1133        |
| Mechanical                                  | Nominal Value (English)   | Nominal Value (SI)        | Test Method     |
| Tensile Modulus                             | 377000 psi                | 2600 MPa                  | ISO 527-2/1A/1  |
| Tensile Stress                              |                           |                           | ISO 527-2/1A/50 |
| Yield                                       | 7250 psi                  | 50.0 MPa                  |                 |
| Break                                       | 5660 psi                  | 39.0 MPa                  |                 |
| Tensile Strain (Yield)                      | 3.0 %                     | 3.0 %                     | ISO 527-2/1A/50 |
| Nominal Tensile Strain at Break             | 16 %                      | 16 %                      | ISO 527-2/1A/50 |
| Flexural Modulus <sup>1</sup>               | 406000 psi                | 2800 MPa                  | ISO 178         |
| Flexural Stress <sup>1</sup> (4.7% Strain)  | 11600 psi                 | 80.0 MPa                  | ISO 178         |
| Impact                                      | Nominal Value (English)   | Nominal Value (SI)        | Test Method     |
| Charpy Notched Impact Strength              |                           |                           | ISO 179/1eA     |
| -22°F (-30°C)                               | 3.8 ft·lb/in <sup>2</sup> | 8.0 kJ/m <sup>2</sup>     |                 |
| 73°F (23°C)                                 | 8.1 ft·lb/in <sup>2</sup> | 17 kJ/m <sup>2</sup>      |                 |
| Charpy Unnotched Impact Strength            |                           |                           | ISO 179/1eU     |
| -22°F (-30°C)                               | 43 ft·lb/in <sup>2</sup>  | 90 kJ/m <sup>2</sup>      |                 |
| 73°F (23°C)                                 | No Break                  | No Break                  |                 |
| Hardness                                    | Nominal Value (English)   | Nominal Value (SI)        | Test Method     |
| Ball Indentation Hardness (H 358/30)        | 18000 psi                 | 124 MPa                   | ISO 2039-1      |
| Thermal                                     | Nominal Value (English)   | Nominal Value (SI)        | Test Method     |
| Heat Deflection Temperature                 |                           |                           |                 |
| 66 psi (0.45 MPa), Unannealed               | 192 °F                    | 89.0 °C                   | ISO 75-2/Bf     |
| 264 psi (1.8 MPa), Unannealed               | 171 °F                    | 77.0 °C                   | ISO 75-2/Af     |
| Vicat Softening Temperature                 |                           |                           |                 |
| --  | 217 °F                    | 103 °C                    | ISO 306/A50     |
| --  | 207 °F                    | 97.0 °C                   | ISO 306/B50     |
| Electrical                                  | Nominal Value (English)   | Nominal Value (SI)        | Test Method     |
| Surface Resistivity                         | 1.0E+13 ohms              | 1.0E+13 ohms              | IEC 60093       |
| Volume Resistivity                          | 1.0E+15 ohms·m            | 1.0E+15 ohms·m            | IEC 62631-3-1   |
| Comparative Tracking Index (Solution A)     | 600 V                     | 600 V                     | IEC 60112       |

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| 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,<br>-20 |
| 0.06 in (1.6 mm)               | HB                      | HB                 |                         |
| 0.13 in (3.2 mm)               | HB                      | HB                 |                         |
| Glow Wire Ignition Temperature |                         |                    | IEC 60695-2-13          |
| 0.06 in (1.5 mm)               | 1290 °F                 | 700 °C             |                         |
| 0.12 in (3.0 mm)               | 1290 °F                 | 700 °C             |                         |

### Additional Information

1.) 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 | 446 to 482 °F           | 230 to 250 °C      |
| Mold Temperature       | 104 to 176 °F           | 40 to 80 °C        |

**Notes**

<sup>1</sup> 0.079 in/min (2.0 mm/min)

**Notes**

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