

Technical Data Sheet

# RONFALIN® ABS 1337

Acrylonitrile Butadiene Styrene  
Engineering Plastics

## Product Description

General purpose ABS Compound, high flow. Available with/without UV stabilization.

## General

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

| Physical                                    | Nominal Value (English)   | Nominal Value (SI)        | Test Method |
|---------------------------------------------|---------------------------|---------------------------|-------------|
| Density                                     | 1.04 g/cm <sup>3</sup>    | 1.04 g/cm <sup>3</sup>    | ISO 1183/A  |
| Melt Volume-Flow Rate (MVR) (220°C/10.0 kg) | 37 cm <sup>3</sup> /10min | 37 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                            | 377000 psi              | 2600 MPa           | ISO 527-2/1A/1  |
| Tensile Stress                             |                         |                    | ISO 527-2/1A/50 |
| Yield                                      | 6960 psi                | 48.0 MPa           |                 |
| Break                                      | 5370 psi                | 37.0 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> (4.8% Strain) | 11500 psi               | 79.0 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)                    | 39 ft·lb/in <sup>2</sup>  | 83 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) | 17400 psi               | 120 MPa            | ISO 2039-1  |

| Thermal                       | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-------------------------------|-------------------------|--------------------|-------------|
| Heat Deflection Temperature   |                         |                    |             |
| 66 psi (0.45 MPa), Unannealed | 196 °F                  | 91.0 °C            | ISO 75-2/Bf |
| 264 psi (1.8 MPa), Unannealed | 174 °F                  | 79.0 °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+15 ohms          | > 1.0E+15 ohms     | IEC 60093     |
| Volume Resistivity                      | > 1.0E+13 ohms·m        | > 1.0E+13 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 (1.5 mm)               | HB                      | HB                 |                         |
| 0.12 in (3.0 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             |                         |

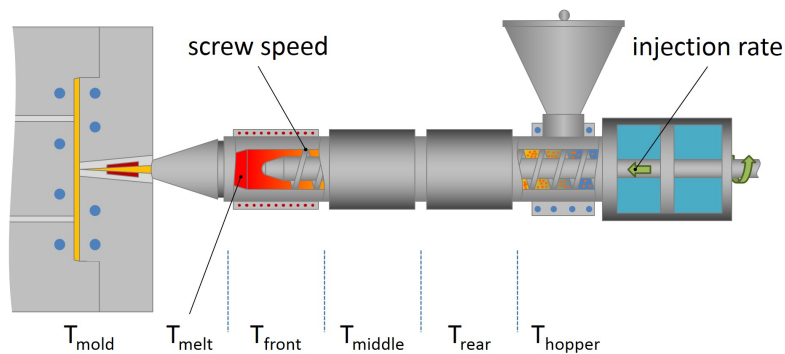
## Additional Information

- 1.) Not for use in 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 | 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.