

## Technical Data Sheet

### Ronfalin ABS 1334 U GRM60275



Acrylonitrile Butadiene Styrene

#### Product Description

General purpose ABS Compound

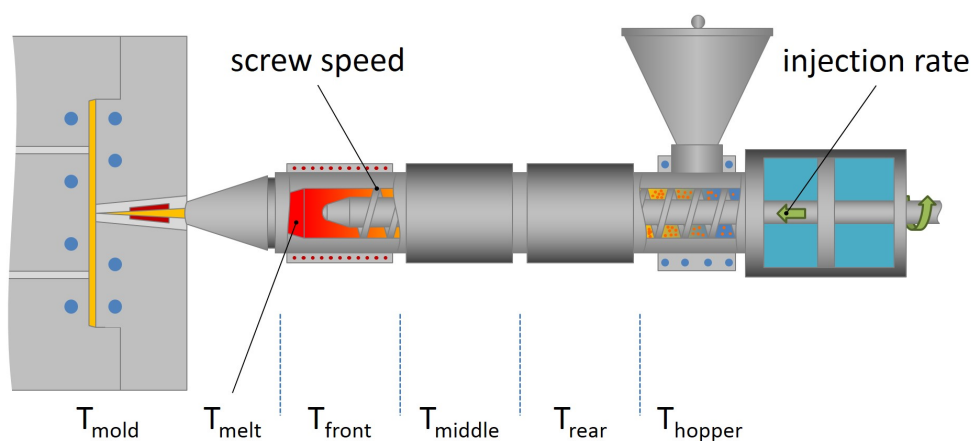
#### Regulatory Status

For regulatory compliance information, see *Ronfalin* ABS 1334 U GRM60275 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

|                   |                                                         |
|-------------------|---------------------------------------------------------|
| Status            | Commercial: Active                                      |
| Availability      | Africa-Middle East; Asia-Pacific; Europe; Latin America |
| Processing Method | Injection Molding                                       |
| Attribute         | Good Flow                                               |
| Resin ID          | ABS                                                     |

| Typical Properties                                                  | Nominal Value | Units                   | Test Method |
|---------------------------------------------------------------------|---------------|-------------------------|-------------|
| <b>Physical</b>                                                     |               |                         |             |
| Melt Volume Flow Rate, (220 °C/10.0 kg)                             | 22            | cm <sup>3</sup> /10 min | ISO 1133    |
| Density, (Method A)                                                 | 1.04          | g/cm <sup>3</sup>       | ISO 1183    |
| <b>Mechanical</b>                                                   |               |                         |             |
| Tensile Stress at Yield, (Type 1A, 50 mm/min)                       | 49.0          | MPa                     | ISO 527-2   |
| Nominal Tensile Strain at Break, (50 mm/min, Type 1A)               | 16            | %                       | ISO 527-2   |
| Flexural Modulus, (2.0 mm/min)                                      | 2900          | MPa                     | ISO 178     |
| Tensile Strain at Yield, (Type 1A, 50 mm/min)                       | 3.1           | %                       | ISO 527-2   |
| Tensile Stress at Break, (Type 1A, 50 mm/min)                       | 37.0          | MPa                     | ISO 527-2   |
| Tensile Modulus, (1 mm/min, Type 1A)                                | 2600          | MPa                     | ISO 527-1   |
| Flexural Stress, (2.0 mm/min, 4.7%)                                 | 83.0          | MPa                     | ISO 178     |
| <b>Impact</b>                                                       |               |                         |             |
| Charpy Impact Strength - Notched                                    |               |                         |             |
| (23 °C, Type 1, Edgewise, Notch A)                                  | 17            | kJ/m <sup>2</sup>       | ISO 179     |
| (-30 °C, Type 1, Edgewise, Notch A)                                 | 9.0           | kJ/m <sup>2</sup>       | ISO 179     |
| Charpy Impact Strength - Unnotched                                  |               |                         |             |
| (23 °C, Type 1, Edgewise)                                           | No Break      |                         | ISO 179     |
| (-30 °C, Type 1, Edgewise)                                          | No Break      |                         | ISO 179     |
| <b>Hardness</b>                                                     |               |                         |             |
| Ball Indentation Hardness, (H 358/30)                               | 120           | MPa                     | ISO 2039-1  |
| <b>Thermal</b>                                                      |               |                         |             |
| Vicat Softening Temperature                                         |               |                         |             |
| (B (50N), 50 °C/h)                                                  | 97.0          | °C                      | ISO 306     |
| (A (10N), 50 °C/h)                                                  | 104           | °C                      | ISO 306     |
| Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise) | 92.0          | °C                      | ISO 75-2/B  |
| Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise) | 82.0          | °C                      | ISO 75-2/A  |
| <b>Electrical</b>                                                   |               |                         |             |

|                                                |                    |        |                      |
|------------------------------------------------|--------------------|--------|----------------------|
| Volume Resistivity                             | 1E+15              | ohm*m  | IEC 62631-3-1        |
| Comparative Tracking Index (CTI), (Solution A) | 600                | V      | IEC 60112            |
| Surface Resistivity                            | 1000000000<br>0000 | ohm    | IEC 60093            |
| <b>Flammable</b>                               |                    |        |                      |
| Burning Rate                                   |                    |        |                      |
| (2.00 mm)                                      | <100               | mm/min | ISO 3795             |
| (2.00 mm)                                      | <100               | mm/min | FMVSS 302            |
| Glow Wire Ignition Temperature                 |                    |        |                      |
| (1.5 mm)                                       | 700                | °C     | IEC 60695-2-13       |
| (3.0 mm)                                       | 700                | °C     | IEC 60695-2-13       |
| <b>UL Information</b>                          |                    |        |                      |
| Flammability Classification                    |                    |        |                      |
| (1.6 mm)                                       | HB                 |        | IEC 60695-11-10, -20 |
| (3.2 mm)                                       | HB                 |        | IEC 60695-11-10, -20 |



| Injection Parameters   | Nominal Value | Units |
|------------------------|---------------|-------|
| Drying Time            | 2.0 to 4.0    | hr    |
| Drying Temperature     | 80            | °C    |
| Processing (Melt) Temp | 230 to 250    | °C    |
| Mold Temperature       | 40 to 80      | °C    |

## Notes

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

## Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

## Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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