

## Ronfalin ASA 3712 GF30

Acrylonitrile Styrene Acrylate  
LyondellBasell Industries  
Engineering Plastics

### Product Description

30% glass fiber reinforced ASA compound with enhanced thermal performance

### General

|                        |                                     |
|------------------------|-------------------------------------|
| Filler / Reinforcement | • Glass Fiber, 30% Filler by Weight |
| Processing Method      | • Injection Molding                 |

| Physical                                    | Nominal Value (English)    | Nominal Value (SI)         | Test Method          |
|---------------------------------------------|----------------------------|----------------------------|----------------------|
| Density                                     | 1.31 g/cm <sup>3</sup>     | 1.31 g/cm <sup>3</sup>     | ISO 1183/A           |
| Melt Volume-Flow Rate (MVR) (220°C/10.0 Kg) | 9.0 cm <sup>3</sup> /10min | 9.0 cm <sup>3</sup> /10min | ISO 1133             |
| Mechanical                                  | Nominal Value (English)    | Nominal Value (SI)         | Test Method          |
| Tensile Modulus                             | 1.31E+6 psi                | 9000 MPa                   | ISO 527-1/1A/1       |
| Tensile Stress (Break)                      | 15500 psi                  | 107 MPa                    | ISO 527-2/1A/5       |
| Tensile Strain (Break)                      | 2.0 %                      | 2.0 %                      | ISO 527-2/5          |
| Flexural Modulus <sup>1</sup>               | 1.50E+6 psi                | 10400 MPa                  | ISO 178              |
| Flexural Stress                             | 26100 psi                  | 180 MPa                    | ISO 178              |
| Impact                                      | Nominal Value (English)    | Nominal Value (SI)         | Test Method          |
| Charpy Notched Impact Strength              |                            |                            | ISO 179/1eA          |
| -22°F (-30°C)                               | 2.6 ft·lb/in <sup>2</sup>  | 5.5 kJ/m <sup>2</sup>      |                      |
| 73°F (23°C)                                 | 2.9 ft·lb/in <sup>2</sup>  | 6.0 kJ/m <sup>2</sup>      |                      |
| Charpy Unnotched Impact Strength            |                            |                            | ISO 179/1eU          |
| -22°F (-30°C)                               | 9.8 ft·lb/in <sup>2</sup>  | 21 kJ/m <sup>2</sup>       |                      |
| 73°F (23°C)                                 | 13 ft·lb/in <sup>2</sup>   | 28 kJ/m <sup>2</sup>       |                      |
| Thermal                                     | Nominal Value (English)    | Nominal Value (SI)         | Test Method          |
| Deflection Temperature Under Load           |                            |                            |                      |
| 66 Psi (0.45 Mpa), Unannealed               | 248 °F                     | 120 °C                     | ISO 75-2/Bf          |
| 264 Psi (1.8 Mpa), Unannealed               | 241 °F                     | 116 °C                     | ISO 75-2/Af          |
| Vicat Softening Temperature                 |                            |                            |                      |
| --                                          | 244 °F                     | 118 °C                     | ISO 306/B50          |
| --                                          | 250 °F                     | 121 °C                     | ISO 306/A50          |
| 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 (1.6 Mm)                            | HB                         | HB                         |                      |
| 0.13 In (3.2 Mm)                            | HB                         | HB                         |                      |

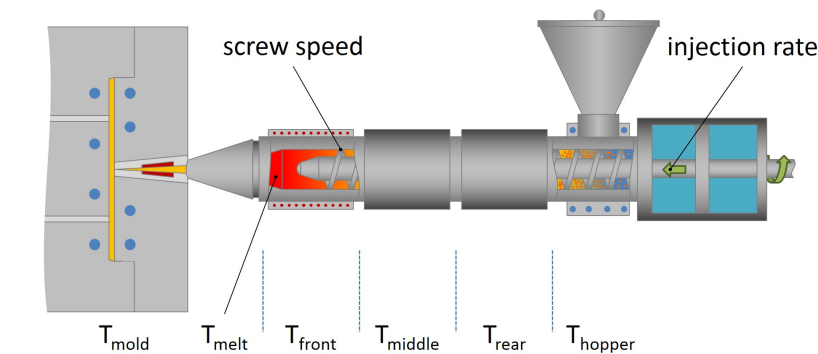
### Additional Information

- 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      |
| 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.

