

## Technical Data Sheet

### Ronfalin VE822 TRAFFIC WHITE 1-1726



Acrylonitrile Butadiene Styrene

#### Product Description

ABS flame retardant compound. Also available UV stabilized. This grade is also available as an antimicrobial grade which contains a biocide based on silver ion technology

|                   |                     |
|-------------------|---------------------|
| Processing Method | Injection Molding   |
| Attribute         | Good Processability |
| Additive          | Flame Retardant     |

| Typical Properties                                                  | Nominal Value | Units             | Test Method    |
|---------------------------------------------------------------------|---------------|-------------------|----------------|
| <b>Physical</b>                                                     |               |                   |                |
| Melt Flow Rate, (220 °C/10.0 kg)                                    | 40            | g/10 min          | ISO 1133       |
| Density, (Method A)                                                 | 1.20          | g/cm <sup>3</sup> | ISO 1183       |
| <b>Mechanical</b>                                                   |               |                   |                |
| Tensile Stress at Yield, (Type 1A, 50 mm/min)                       | 46.0          | MPa               | ISO 527-2      |
| Tensile Strain at Yield, (Type 1A, 50 mm/min)                       | 2.5           | %                 | ISO 527-2      |
| Tensile Modulus, (1 mm/min, Type 1A)                                | 2200          | MPa               | ISO 527-1      |
| Flexural Stress, (2.0 mm/min)                                       | 70.0          | MPa               | ISO 178        |
| <b>Impact</b>                                                       |               |                   |                |
| Charpy Impact Strength - Notched                                    |               |                   |                |
| (23 °C, Type 1, Edgewise, Notch A)                                  | 16            | kJ/m <sup>2</sup> | ISO 179        |
| (-20 °C, Type 1, Edgewise, Notch A)                                 | 5.0           | kJ/m <sup>2</sup> | ISO 179        |
| Notched Izod Impact Strength, (Notch A)                             | 15            | kJ/m <sup>2</sup> | ISO 180        |
| <b>Hardness</b>                                                     |               |                   |                |
| Ball Indentation Hardness, (H 358/30)                               | 89.0          | MPa               | ISO 2039-1     |
| Ball Pressure Test, (85 °C)                                         | Pass          |                   | IEC 60695-10-2 |
| <b>Thermal</b>                                                      |               |                   |                |
| Vicat Softening Temperature, (B (50N), 50 °C/h)                     | 96.0          | °C                | ISO 306        |
| Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise) | 93.0          | °C                | ISO 75-2/B     |
| Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise) | 85.0          | °C                | ISO 75-2/A     |
| <b>Electrical</b>                                                   |               |                   |                |
| Comparative Tracking Index (CTI), (Solution B)                      | >600          | V                 | IEC 60112      |
| <b>Flammable</b>                                                    |               |                   |                |
| Glow Wire Flammability Index, (1.0 mm)                              | 960           | °C                | IEC 60695-2-12 |

| Glow Wire Ignition Temperature |     |    |                      |
|--------------------------------|-----|----|----------------------|
| (1.5 mm)                       | 750 | °C | IEC 60695-2-13       |
| (3.0 mm)                       | 750 | °C | IEC 60695-2-13       |
| (1.0 mm)                       | 725 | °C | IEC 60695-2-13       |
| UL Information                 |     |    |                      |
| Flammability Classification    |     |    |                      |
| (1.0 mm)                       | V-0 |    | IEC 60695-11-10, -20 |
| (1.5 mm)                       | V-0 |    | IEC 60695-11-10, -20 |
| (3.0 mm)                       | V-0 |    | IEC 60695-11-10, -20 |
| (3.0 mm)                       | 5VA |    | IEC 60695-11-10, -20 |