

Technical Data Sheet

Ronfalin VE822 BLUE 3-1416

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 |
|---|---------------|-------------------|----------------|
| Physical | | | |
| Melt Flow Rate, (220 °C/10.0 kg) | 40 | g/10 min | ISO 1133 |
| Density, (Method A) | 1.20 | g/cm ³ | ISO 1183 |
| Mechanical | | | |
| 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 |
| Impact | | | |
| Charpy Impact Strength - Notched | | | |
| (23 °C, Type 1, Edgewise, Notch A) | 16 | kJ/m ² | ISO 179 |
| (-20 °C, Type 1, Edgewise, Notch A) | 5.0 | kJ/m ² | ISO 179 |
| Notched Izod Impact Strength, (Notch A) | 15 | kJ/m ² | ISO 180 |
| Hardness | | | |
| Ball Indentation Hardness, (H 358/30) | 89.0 | MPa | ISO 2039-1 |
| Ball Pressure Test, (85 °C) | Pass | | IEC 60695-10-2 |
| Thermal | | | |
| 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 |
| Electrical | | | |
| Comparative Tracking Index (CTI), (Solution B) | >600 | V | IEC 60112 |
| Flammable | | | |
| 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) | 5VA | IEC 60695-11-10, -20 |
| (3.0 mm) | V-0 | IEC 60695-11-10, -20 |