

## Technical Data Sheet

**Ronfalin VE101 BLK 10007**

Acrylonitrile Butadiene Styrene

**Product Description**

Flame retardant ABS for injection moulding.

**Processing Method** Injection Molding**Additive** Flame Retardant

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Volume Flow Rate, (220 °C/10.0 kg)	25	cm <sup>3</sup> /10 min	ISO 1133
Density, (Method A)	1.19	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical</b>			
Tensile Stress at Yield, (Type 1A, 50 mm/min)	45.0	MPa	ISO 527-2
Tensile Strain at Break	18	%	ISO 527-2
Flexural Modulus, (2.0 mm/min)	2700	MPa	ISO 178
Tensile Strain at Yield, (Type 1A, 50 mm/min)	3.0	%	ISO 527-2
Tensile Stress at Break, (Type 1A, 50 mm/min)	40.0	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	2500	MPa	ISO 527-1
Flexural Stress			
(2.0 mm/min, 3.5%)	74.0	MPa	ISO 178
(2.0 mm/min, 4.2%)	75.0	MPa	ISO 178
(2.0 mm/min, 8.5%)	68.0	MPa	ISO 178
<b>Impact</b>			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	11	kJ/m <sup>2</sup>	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	6.0	kJ/m <sup>2</sup>	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	65	kJ/m <sup>2</sup>	ISO 179
(-30 °C, Type 1, Edgewise)	45	kJ/m <sup>2</sup>	ISO 179
<b>Thermal</b>			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	93.0	°C	ISO 306
(A (10N), 50 °C/h)	102	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	83.0	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	75.0	°C	ISO 75-2/A
<b>Electrical</b>			
Comparative Tracking Index (CTI), (Solution A)	350	V	IEC 60112

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**Flammable**

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Glow Wire Flammability Index

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(1.5 mm)	960 °C	IEC 60695-2-12
(3.0 mm)	960 °C	IEC 60695-2-12

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Glow Wire Ignition Temperature

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(1.5 mm)	700 °C	IEC 60695-2-13
(3.0 mm)	725 °C	IEC 60695-2-13

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**UL Information**

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Flammability Classification

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(0.8 mm)	V-0	IEC 60695-11-10, -20
(1.6 mm)	V-0	IEC 60695-11-10, -20
(3.2 mm)	V-0	IEC 60695-11-10, -20