

## Technical Data Sheet

**Ronfalin ABS 1411 GF30 WHI 80390**

Acrylonitrile Butadiene Styrene

**Product Description**

30% glass fiber reinforced ABS compound

**Processing Method** Injection Molding**Filler/Reinforcement** Glass Fiber, 30%

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Volume Flow Rate, (220 °C/10.0 kg)	7.0	cm <sup>3</sup> /10 min	ISO 1133
Density, (Method A)	1.26	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical</b>			
Tensile Strain at Break, (5 mm/min)	1.3	%	ISO 527-2
Flexural Modulus, (2.0 mm/min)	6900	MPa	ISO 178
Tensile Stress at Break, (Type 1A, 5 mm/min)	81.0	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	8200	MPa	ISO 527-1
Flexural Stress			
(2.0 mm/min, 2.0%)	95.0	MPa	ISO 178
(2.0 mm/min, 1.9%)	106	MPa	ISO 178
<b>Impact</b>			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	7.0	kJ/m <sup>2</sup>	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	5.0	kJ/m <sup>2</sup>	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	12	kJ/m <sup>2</sup>	ISO 179
(-30 °C, Type 1, Edgewise)	14	kJ/m <sup>2</sup>	ISO 179
<b>Hardness</b>			
Ball Indentation Hardness, (H 358/30)	147	MPa	ISO 2039-1
<b>Thermal</b>			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	102	°C	ISO 306
(A (10N), 50 °C/h)	112	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	99.0	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	95.0	°C	ISO 75-2/A
<b>Electrical</b>			
Volume Resistivity	1000000000 00000	ohm*m	IEC 62631-3-1

Comparative Tracking Index (CTI), (Solution A)	600	V	IEC 60112
Surface Resistivity	1000000000 00000	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
<b>Injection Parameters</b>			
	<b>Nominal Value</b>	<b>Units</b>	
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	