

Technical Data Sheet

# RONFALIN<sup>®</sup> ABS 1520

Acrylonitrile Butadiene Styrene  
Engineering Plastics

**Product Description**  
Heat resistant ABS grade

**General**

Automotive Specifications	• GM QK 002014 Color: Natural
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• ABS

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
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Density	1.05 g/cm <sup>3</sup>	1.05 g/cm <sup>3</sup>	ISO 1183/A
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	4.00 cm <sup>3</sup> /10min	4.00 cm <sup>3</sup> /10min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
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Tensile Modulus	276000 psi	1900 MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	7110 psi	49.0 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	2.7 %	2.7 %	ISO 527-2/1A/50

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
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Charpy Notched Impact Strength	-22°F (-30°C)	3.3 ft·lb/in <sup>2</sup>	7.0 kJ/m <sup>2</sup>	ISO 179/1eA
	73°F (23°C)	5.7 ft·lb/in <sup>2</sup>	12 kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength	73°F (23°C)	31 ft·lb/in <sup>2</sup>	65 kJ/m <sup>2</sup>	ISO 179/1eU

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
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Ball Indentation Hardness (H 358/30)	13600 psi	94.0 MPa	ISO 2039-1
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Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
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Heat Deflection Temperature	66 psi (0.45 MPa), Unannealed	225 °F	107 °C	ISO 75-2/Bf
	264 psi (1.8 MPa), Unannealed	217 °F	103 °C	ISO 75-2/Af
	Vicat Softening Temperature	225 °F	107 °C	ISO 306/B50

Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
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Surface Resistivity	> 1.0E+15 ohms	> 1.0E+15 ohms	IEC 60093
Volume Resistivity	> 1.0E+13 ohms·m	> 1.0E+13 ohms·m	IEC 62631-3-1

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
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Burning Rate	0.0787 in (2.00 mm)	1.7 in/min	43 mm/min	ISO 3795
	0.0787 in (2.00 mm)	1.7 in/min	43 mm/min	FMVSS 302
Flammability Classification	0.06 in (1.5 mm)	HB	HB	IEC 60695-11-10, -20
	0.12 in (3.0 mm)	HB	HB	
	Glow Wire Flammability Index			
Glow Wire Flammability Index	0.06 in (1.5 mm)	1200 °F	650 °C	
	0.12 in (3.0 mm)	1200 °F	650 °C	

**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 500 °F	230 to 260 °C
Mold Temperature	104 to 176 °F	40 to 80 °C

**Notes**

These are typical property values not to be construed as specification limits.