

Technical Data Sheet

# RONFALIN<sup>®</sup> ABS 1522

Acrylonitrile Butadiene Styrene  
Engineering Plastics

**Product Description**

heat resistant ABS grade with high flow; also available as low emission grade; for automotive applications. (Former name: POLYMAN ABS HH3 D)

**General**

Processing Method	• Injection Molding
Resin ID (ISO 1043)	• ABS

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
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)	12 cm <sup>3</sup> /10min	12 cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage	0.40 to 0.70 %	0.40 to 0.70 %	ISO 294-4
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	334000 psi	2300 MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	7110 psi	49.0 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	2.8 %	2.8 %	ISO 527-2/1A/50
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	2.9 ft·lb/in <sup>2</sup>	6.0 kJ/m <sup>2</sup>	
73°F (23°C)	4.8 ft·lb/in <sup>2</sup>	10 kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	13 ft·lb/in <sup>2</sup>	27 kJ/m <sup>2</sup>	
73°F (23°C)	33 ft·lb/in <sup>2</sup>	70 kJ/m <sup>2</sup>	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	14500 psi	100 MPa	ISO 2039-1
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	228 °F	109 °C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	219 °F	104 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	241 °F	116 °C	ISO 306/A50
--	226 °F	108 °C	ISO 306/B50
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
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
Comparative Tracking Index	600 V	600 V	IEC 60112
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate			
0.0787 in (2.00 mm)	2.8 in/min	71 mm/min	ISO 3795
0.0787 in (2.00 mm)	2.8 in/min	71 mm/min	FMVSS 302
Flammability Classification			IEC 60695-11-10, -20
0.06 in (1.5 mm)	HB	HB	
0.12 in (3.0 mm)	HB	HB	
Glow Wire Flammability Index			IEC 60695-2-12
0.06 in (1.5 mm)	1200 °F	650 °C	
0.12 in (3.0 mm)	1200 °F	650 °C	

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## 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 482 °F	230 to 250 °C
Mold Temperature	104 to 176 °F	40 to 80 °C

**Notes**

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