

Technical Data Sheet

# RONFALIN® ABS 1341 AM U

Acrylonitrile Butadiene Styrene  
Engineering Plastics

**Product Description**

UV stabilized injection moulding grade, containing a biocide based on silver ion technology. (Former name: RONFALIN RT51U-AM)

**General**

Features	• Good Toughness	• Medium Rigidity
Uses	• Electrical Parts	• Housings
RoHS Compliance	• RoHS Compliant	

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
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	17 g/10 min	17 g/10 min	ISO 1133
Molding Shrinkage	0.40 to 0.70 %	0.40 to 0.70 %	

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	377000 psi	2600 MPa	ISO 527-2
Tensile Stress (Yield)	6960 psi	48.0 MPa	ISO 527-2/50
Tensile Strain (Yield)	2.5 %	2.5 %	ISO 527-2
Flexural Modulus	363000 psi	2500 MPa	ISO 178

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	5.7 ft·lb/in <sup>2</sup>	12 kJ/m <sup>2</sup>	
73°F (23°C)	10 ft·lb/in <sup>2</sup>	22 kJ/m <sup>2</sup>	
Notched Izod Impact Strength	10 ft·lb/in <sup>2</sup>	22 kJ/m <sup>2</sup>	ISO 180/1A

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness	14800 psi	102 MPa	ISO 2039-1

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	210 °F	99.0 °C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	207 °F	97.0 °C	ISO 75-2/A
Vicat Softening Temperature	212 °F	100 °C	ISO 306/B50

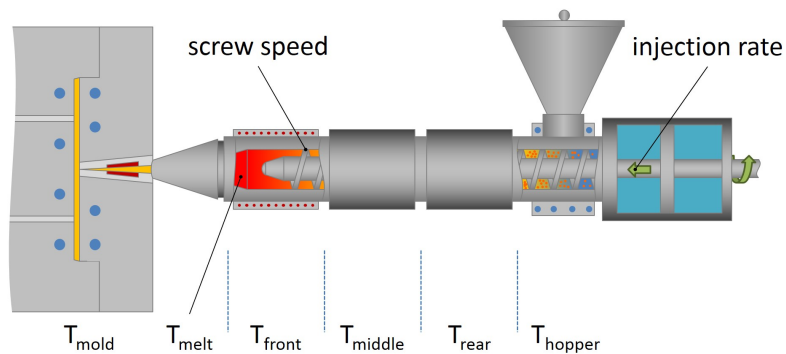
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Surface Resistivity	> 1.0E+15 ohms	> 1.0E+15 ohms	IEC 60093
Volume Resistivity	> 1.0E+13 ohms·m	> 1.0E+13 ohms·m	IEC 62631-3-1
Electric Strength	> 640 V/mil	> 25 kV/mm	IEC 60243-1
Comparative Tracking Index (Solution A)	> 600 V	> 600 V	IEC 60112

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate			
0.0787 in (2.00 mm)	< 3.9 in/min	< 100 mm/min	ISO 3795
0.0787 in (2.00 mm)	< 3.9 in/min	< 100 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	

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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.