

Technical Data Sheet

RONFALIN® ABS 1220 MW 20 U

Acrylonitrile Butadiene Styrene
Engineering Plastics

Product Description

20% Wollastonite mineral filled ABS compound, UV stabilized

General

Filler / Reinforcement	• Wollastonite (CaSiO ₃), 20% Filler by Weight
Features	• UV Stabilized
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.17 g/cm ³	1.17 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	4.00 cm ³ /10min	4.00 cm ³ /10min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	580000 psi	4000 MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	4790 psi	33.0 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	2.0 %	2.0 %	ISO 527-2/1A/50

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	6.2 ft·lb/in ²	13 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength 73°F (23°C)	19 ft·lb/in ²	39 kJ/m ²	ISO 179/1eU

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	13900 psi	96.0 MPa	ISO 2039-1

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	178 °F	81.0 °C	ISO 75-2/Af
Vicat Softening Temperature	199 °F	93.0 °C	ISO 306/B50

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 0.06 in (1.6 mm)	HB	HB	IEC 60695-11-10, -20

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
Suggested Max Regrind	30 %	30 %
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.