

Technical Data Sheet

# Ronfalin ABS 1271 A FC

Acrylonitrile Butadiene Styrene  
LyondellBasell Industries  
Engineering Plastics

**Product Description**

High impact, low flow ABS grade; antistatic; suitable for food contact.

**General**

Features	<ul style="list-style-type: none"> <li>• Antistatic</li> <li>• Food Contact Acceptable</li> </ul>	<ul style="list-style-type: none"> <li>• High Impact Resistance</li> <li>• Low Flow</li> </ul>
Processing Method	<ul style="list-style-type: none"> <li>• Injection Molding</li> </ul>	
Resin ID (ISO 1043)	<ul style="list-style-type: none"> <li>• ABS</li> </ul>	

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)	10 cm <sup>3</sup> /10min	10 cm <sup>3</sup> /10min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	254000 psi	1750 MPa	ISO 527-1/1A
Tensile Stress (Yield)	5080 psi	35.0 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
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	1.9 ft·lb/in <sup>2</sup>	4.0 kJ/m <sup>2</sup>	
73°F (23°C)	18 ft·lb/in <sup>2</sup>	38 kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	21 ft·lb/in <sup>2</sup>	43 kJ/m <sup>2</sup>	
73°F (23°C)	No Break	No Break	

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature			
--	196 °F	91.0 °C	ISO 306/B50
--	288 °F	142 °C	ISO 306/A50

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	

**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.