

Technical Data Sheet

**Ronfalin ABS Appliance White # 1 (1FM4A0T)**

Acrylonitrile Butadiene Styrene
LyondellBasell Industries
Engineering Plastics

Product Description

General purpose ABS grade

General

Material Status	• Commercial: Active	
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America
Features	• Good Flow	
Processing Method	• Injection Molding	
Resin ID (ISO 1043)	• ABS	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.04 g/cm ³	1.04 g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	6.6 g/10 min	6.6 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	362000 psi	2500 MPa	ISO 527-1/1A/1
Tensile Strength (Yield, 73°F (23°C))	6520 psi	45.0 MPa	ASTM D638
Tensile Strain (Yield)	2.4 %	2.4 %	ISO 527-2/1A/50
Flexural Modulus ¹	341000 psi	2350 MPa	ISO 178
Flexural Stress			
4.8% Strain ¹	11900 psi	82.0 MPa	ISO 178
Yield, 73°F (23°C)	9430 psi	65.0 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	4.6 ft-lb/in	250 J/m	ASTM D256
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	18600 psi	128 MPa	ISO 2039-1
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	192 °F	88.9 °C	
264 psi (1.8 MPa), Unannealed	167 °F	75.0 °C	
Vicat Softening Temperature			
--	203 °F	95.0 °C	ISO 306/B50
--	216 °F	102 °C	ISO 306/A50

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

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Notes

¹ 0.079 in/min (2.0 mm/min)

Notes

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

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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