

Technical Data Sheet

**Ronfalin ABS XG1138**

Acrylonitrile Butadiene Styrene
LyondellBasell Industries
Engineering Plastics

Product Description

Flame retardant ABS

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Flame Retardant		
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.20 g/cm ³	1.20 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	30 g/10 min	30 g/10 min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	334000 psi	2300 MPa	ISO 527-1
Tensile Stress (Yield)	6670 psi	46.0 MPa	ISO 527-2
Tensile Strain (Yield)	2.5 %	2.5 %	ISO 527-2
Flexural Stress	11300 psi	78.0 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	5.7 ft·lb/in ²	12 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength 73°F (23°C)	No Break	No Break	ISO 179
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness	13900 psi	96.0 MPa	ISO 2039-1
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 psi (0.45 MPa), Unannealed	198 °F	92.0 °C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	176 °F	80.0 °C	ISO 75-2/A
Vicat Softening Temperature	205 °F	96.0 °C	ISO 306/B50
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating			UL 94
0.06 in (1.5 mm)	V-0	V-0	
0.12 in (3.0 mm)	V-0	V-0	
Glow Wire Flammability Index	1760 °F	960 °C	IEC 60695-2-12

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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	392 to 464 °F	200 to 240 °C
Mold Temperature	104 to 176 °F	40 to 80 °C
Injection Pressure	116000 to 218000 psi	800 to 1500 MPa
Injection Rate	Moderate	Moderate

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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