Technical Data Sheet

Ronfalin ABS 1411 GF 30

Acrylonitrile Butadiene Styrene
LyondellBasell Industries
Engineering Plastics

Product Description	
30% glass fiber reinforced ABS compound	
General	
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.26 g/cm³	1.26 g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (220°c/10.0 Kg)	7.0 cm³/10min	7.0 cm³/10min	ISO 1133
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus	1.19E+6 psi	8200 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	11700 psi	81.0 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	1.3 %	1.3 %	ISO 527-2/5
Flexural Modulus [1]	1.00E+6 psi	6900 MPa	ISO 178
Flexural Stress [1]			ISO 178
1.9% Strain	15400 psi	106 MPa	
2.0% Strain [2]	13800 psi	95.0 MPa	
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-22°f (-30°c)	2.4 ft·lb/in²	5.0 kJ/m²	
73°f (23°c)	3.3 ft·lb/in²	7.0 kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°f (-30°c)	6.7 ft·lb/in²	14 kJ/m²	
73°f (23°c)	5.7 ft·lb/in²	12 kJ/m²	
Hardness	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Ball Indentation Hardness (H 358/30)	21300 psi	147 MPa	ISO 2039-1
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			
66 Psi (0.45 Mpa), Unannealed	210 °F	99.0 °C	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	203 °F	95.0 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	216 °F	102 °C	ISO 306/B50
--	234 °F	112 °C	ISO 306/A50
Electrical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Surface Resistivity	1.0E+14 ohms	1.0E+14 ohms	IEC 60093
Volume Resistivity	1.0E+14 ohms·m	1.0E+14 ohms·m	IEC 62631-3-1
Comparative Tracking Index (Solution A)	600 V	600 V	IEC 60112

Technical Data Sheet

Ronfalin ABS 1411 GF 30

Acrylonitrile Butadiene Styrene
LyondellBasell Industries
Engineering Plastics

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 (1.6 Mm)	HB	HB	
0.13 In (3.2 Mm)	HB	HB	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.06 In (1.5 Mm)	1290 °F	700 °C	
0.12 In (3.0 Mm)	1290 °F	700 °C	

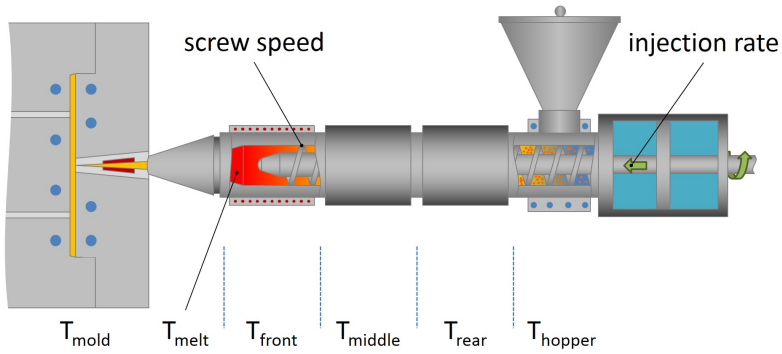
Additional Information

1.) Not for use in food contact applications
2.) Not for use in medical or pharmaceutical applications

Technical Data Sheet

Ronfalin ABS 1411 GF 30

Acrylonitrile Butadiene Styrene
LyondellBasell Industries
Engineering Plastics



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

[1] 0.079 in/min (2.0 mm/min)

[2] at Break

Notes

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