Technical Data Sheet

Ronfalin ABS 1314 GB 10

Acrylonitrile Butadiene Styrene
LyondellBasell Industries
Engineering Plastics

Product Description	
10% glass bead filled ABS compound. (Former name: POLYMAN FABS 10 GB)	
General	
Filler / Reinforcement	• Glass Bead, 10% Filler by Weight
Features	• Good Flow
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.12 g/cm³	1.12 g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (220°c/10.0 Kg)	22 cm³/10min	22 cm³/10min	ISO 1133
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus	435000 psi	3000 MPa	ISO 527-1/1A/1
Tensile Stress			ISO 527-2/1A/50
Yield	6960 psi	48.0 MPa	
Break	6240 psi	43.0 MPa	
Tensile Strain (Yield)	3.1 %	3.1 %	ISO 527-2/1A/50
Nominal Tensile Strain at Break	15 %	15 %	ISO 527-2/1A/50
Flexural Modulus [1]	522000 psi	3600 MPa	ISO 178
Flexural Stress [1] (4.6% Strain)	12600 psi	87.0 MPa	ISO 178
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-22°f (-30°c)	1.4 ft·lb/in²	3.0 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)	10 ft·lb/in²	22 kJ/m²	
73°f (23°c)	13 ft·lb/in²	27 kJ/m²	
Hardness	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Ball Indentation Hardness (H 358/30)	19900 psi	137 MPa	ISO 2039-1
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			
66 Psi (0.45 Mpa), Unannealed	199 °F	93.0 °C	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	176 °F	80.0 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	207 °F	97.0 °C	ISO 306/B50
--	221 °F	105 °C	ISO 306/A50
Electrical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Surface Resistivity	> 1.0E+15 ohms	> 1.0E+15 ohms	IEC 60093
Volume Resistivity	> 1.0E+13 ohms·m	> 1.0E+13 ohms·m	IEC 62631-3-1
Comparative Tracking Index (Solution A)	600 V	600 V	IEC 60112

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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	
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

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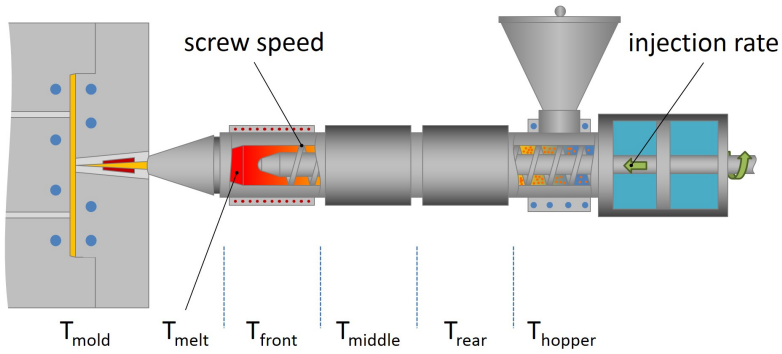

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Processing (Melt) Temp	446 to 500 °F	230 to 260 °C
Mold Temperature	104 to 176 °F	40 to 80 °C

Notes

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

Notes

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