

Technical Data Sheet

Ronfalin ABS 1334

Acrylonitrile Butadiene Styrene
LyondellBasell Industries
Engineering Plastics

Product Description

General purpose ABS Compound

General

| | |
|---------------------|---------------------|
| 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 Volume-Flow Rate (MVR) (220°C/10.0 Kg) | 22 cm ³ /10min | 22 cm ³ /10min | ISO 1133 |

| Mechanical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|--|-------------------------|--------------------|-----------------|
| Tensile Modulus | 377000 psi | 2600 MPa | ISO 527-1/1A/1 |
| Tensile Stress | | | ISO 527-2/1A/50 |
| Yield | 7110 psi | 49.0 MPa | |
| Break | 5370 psi | 37.0 MPa | |
| Tensile Strain (Yield) | 3.1 % | 3.1 % | ISO 527-2/1A/50 |
| Nominal Tensile Strain at Break | 16 % | 16 % | ISO 527-2/1A/50 |
| Flexural Modulus ¹ | 421000 psi | 2900 MPa | ISO 178 |
| Flexural Stress ¹ (4.7% Strain) | 12000 psi | 83.0 MPa | ISO 178 |

| Impact | Nominal Value (English) | Nominal Value (SI) | Test Method |
|----------------------------------|---------------------------|-----------------------|-------------|
| Charpy Notched Impact Strength | | | ISO 179/1eA |
| -22°F (-30°C) | 4.3 ft·lb/in ² | 9.0 kJ/m ² | |
| 73°F (23°C) | 8.1 ft·lb/in ² | 17 kJ/m ² | |
| Charpy Unnotched Impact Strength | | | ISO 179/1eU |
| -22°F (-30°C) | No Break | No Break | |
| 73°F (23°C) | No Break | No Break | |

| Hardness | Nominal Value (English) | Nominal Value (SI) | Test Method |
|--------------------------------------|-------------------------|--------------------|-------------|
| Ball Indentation Hardness (H 358/30) | 17400 psi | 120 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/Bf |
| 264 Psi (1.8 Mpa), Unannealed | 180 °F | 82.0 °C | ISO 75-2/Af |
| Vicat Softening Temperature | | | |
| -- | 207 °F | 97.0 °C | ISO 306/B50 |
| -- | 219 °F | 104 °C | ISO 306/A50 |

| Electrical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|-------------------------|--------------------|---------------|
| Surface Resistivity | 1.0E+13 ohms | 1.0E+13 ohms | IEC 60093 |
| Volume Resistivity | 1.0E+15 ohms·m | 1.0E+15 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 (1.6 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

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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

¹ 0.079 in/min (2.0 mm/min)

Notes

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