

Technical Data Sheet

Ronfalin ABS 1363 U WHI 86715

Acrylonitrile Butadiene Styrene

Product Description

Super high impact ABS compound

Processing Method Injection Molding**Attribute** Good Flow**Resin ID** ABS

| Typical Properties | Nominal Value | Units | Test Method |
|---|----------------------|-------------------------|--------------------|
| Physical | | | |
| Melt Volume Flow Rate, (220 °C/10.0 kg) | 17 | cm ³ /10 min | ISO 1133 |
| Density, (Method A) | 1.04 | g/cm ³ | ISO 1183 |
| Mechanical | | | |
| Tensile Stress at Yield, (Type 1A, 50 mm/min) | 37.0 | MPa | ISO 527-2 |
| Nominal Tensile Strain at Break, (50 mm/min, Type 1A) | 16 | % | ISO 527-2 |
| Flexural Modulus, (2.0 mm/min) | 2100 | MPa | ISO 178 |
| Tensile Strain at Yield, (Type 1A, 50 mm/min) | 3.0 | % | ISO 527-2 |
| Tensile Stress at Break, (Type 1A, 50 mm/min) | 30.0 | MPa | ISO 527-2 |
| Tensile Modulus, (1 mm/min, Type 1A) | 1800 | MPa | ISO 527-1 |
| Flexural Stress, (2.0 mm/min, 4.5%) | 61.0 | MPa | ISO 178 |
| Impact | | | |
| Charpy Impact Strength - Notched | | | |
| (23 °C, Type 1, Edgewise, Notch A) | 32 | kJ/m ² | ISO 179 |
| (-30 °C, Type 1, Edgewise, Notch A) | 15 | kJ/m ² | ISO 179 |
| Charpy Impact Strength - Unnotched | | | |
| (23 °C, Type 1, Edgewise) | No Break | | ISO 179 |
| (-30 °C, Type 1, Edgewise) | No Break | | ISO 179 |
| Hardness | | | |
| Ball Indentation Hardness, (H 358/30) | 85.0 | MPa | ISO 2039-1 |
| Thermal | | | |
| Vicat Softening Temperature | | | |
| (B (50N), 50 °C/h) | 97.0 | °C | ISO 306 |
| (A (10N), 50 °C/h) | 104 | °C | ISO 306 |
| Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise) | 91.0 | °C | ISO 75-2/B |
| Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise) | 80.0 | °C | ISO 75-2/A |
| Electrical | | | |

| | | | |
|--|---------------------|-------|---------------|
| Volume Resistivity | 1E+15 | ohm*m | IEC 62631-3-1 |
| Comparative Tracking Index (CTI), (Solution A) | 600 | V | IEC 60112 |
| Surface Resistivity | 1000000000 00000 | ohm | IEC 60093 |

Flammable

| | | | |
|---------------------------------------|------|--------|----------------|
| Burning Rate | | | |
| (2.00 mm) | <100 | mm/min | FMVSS 302 |
| (2.00 mm) | <100 | mm/min | ISO 3795 |
| Glow Wire Ignition Temperature | | | |
| (1.5 mm) | 700 | °C | IEC 60695-2-13 |
| (3.0 mm) | 700 | °C | IEC 60695-2-13 |

UL Information

| | | | |
|------------------------------------|----|--|----------------------|
| Flammability Classification | | | |
| (1.6 mm) | HB | | IEC 60695-11-10, -20 |
| (3.2 mm) | HB | | IEC 60695-11-10, -20 |

| Injection Parameters | Nominal Value | Units |
|-----------------------------|----------------------|--------------|
| Drying Time | 2.0 to 4.0 | hr |
| Drying Temperature | 80 | °C |
| Processing (Melt) Temp | 230 to 250 | °C |
| Mold Temperature | 40 to 80 | °C |