Technical Data Sheet

Ronfalin ABS 1400 35GF U NAT

Acrylonitrile Butadiene Styrene

Product Description

35% glass fiber reinforced ABS compound, with increased heat distortion temperature, UV stabilized

Processing Method	Extrusion; Injection Molding
Filler/Reinforcement	Glass Fiber, 35%
Resin ID	ABS-GF35

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (220 °C/10.0 kg)	3.5	cm³/10 min	ISO 1133
Density, (Method A)	1.32	g/cm³	ISO 1183
Mechanical			
Tensile Strain at Break, (5 mm/min)	>1.2	%	ISO 527-2
Tensile Stress at Break, (Type 1A, 5 mm/min)	80.0	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	8500	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	5.0	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	5.0	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	15	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise)	14	kJ/m²	ISO 179
Thermal			
Vicat Softening Temperature, (B (50N), 50 °C/h)	100	°C	ISO 306
Electrical			
Volume Resistivity	10000000000000000	ohm*m	IEC 62631-3-1
Surface Resistivity	10000000000000000	ohm	IEC 60093
Flammable			
Burning Rate			
(2.00 mm)	<100	mm/min	FMVSS 302
(2.00 mm)	<100	mm/min	ISO 3795
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