

Technical Data Sheet

Ronfalin ABS 1271 A FC WHI 81600

Acrylonitrile Butadiene Styrene

Product Description

High impact, low flow ABS grade; antistatic; suitable for food contact.

Processing Method	Injection Molding
Attribute	Food Contact Acceptable; High Impact Resistance; Low Flow
Additive	Antistatic
Resin ID	ABS

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (220 °C/10.0 kg)	10	cm ³ /10 min	ISO 1133
Density, (Method A)	1.05	g/cm ³	ISO 1183
Mechanical			
Tensile Stress at Yield, (Type 1A, 50 mm/min)	35.0	MPa	ISO 527-2
Tensile Strain at Yield, (Type 1A, 50 mm/min)	2.7	%	ISO 527-2
Tensile Modulus, (Type 1A)	1750	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	38	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	4.0	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	No Break		ISO 179
(-30 °C, Type 1, Edgewise)	43	kJ/m ²	ISO 179
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	91.0	°C	ISO 306
(A (10N), 50 °C/h)	142	°C	ISO 306
Flammable			
Burning Rate			
(2.00 mm)	<100	mm/min	FMVSS 302
(2.00 mm)	<100	mm/min	ISO 3795
UL Information			
Flammability Classification			
(1.5 mm)	HB		IEC 60695-11-10, -20
(3.0 mm)	HB		IEC 60695-11-10, -20
Injection Parameters			
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	