Technical Data Sheet

Ronfalin ABS 1314 GB10 GRY60195

Acrylonitrile Butadiene Styrene

Product Description

10% glass bead filled ABS compound. (Former name: POLYMAN FABS 10 GB)

Processing Method	Injection Molding
Attribute	Good Flow
Filler/Reinforcement	Glass Bead, 10%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (220 °C/10.0 kg)	22	cm³/10 min	ISO 1133
Density, (Method A)	1.12	g/cm³	ISO 1183
Mechanical			
Tensile Stress at Yield, (Type 1A, 50 mm/min)	48.0	MPa	ISO 527-2
Nominal Tensile Strain at Break, (50 mm/min, Type 1A)	15	%	ISO 527-2
Flexural Modulus, (2.0 mm/min)	3600	MPa	ISO 178
Tensile Strain at Yield, (Type 1A, 50 mm/min)	3.1	%	ISO 527-2
Tensile Stress at Break, (Type 1A, 50 mm/min)	43.0	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	3000	MPa	ISO 527-1
Flexural Stress, (2.0 mm/min, 4.6%)	87.0	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	7.0	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	3.0	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	27	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise)	22	kJ/m²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	137	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	97.0	°C	ISO 306
(A (10N), 50 °C/h)	105	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	93.0	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	80.0	°C	ISO 75-2/A
Electrical			

Volume Resistivity	>1.0E+13	ohm*m	IEC 62631-3-1
Comparative Tracking Index (CTI), (Solution A)	600	V	IEC 60112
Surface Resistivity	>1.0E+15	ohm	IEC 60093
Flammable			
Burning Rate			
(2.00 mm)	<100	mm/min	ISO 3795
(2.00 mm)	<100	mm/min	FMVSS 302
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			
(1.5 mm)	HB		IEC 60695-11-10, -20
(3.0 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 260	°C
Mold Temperature	40 to 80	°C