Technical Data Sheet

Ronfalin SAN 4405 FC WHI81640

Styrene Acrylonitrile

Product Description

Good flow SAN grade with high chemical resistance and food contact approvals. (Former name: POLYMAN SAN 29/10 K3005)

Processing Method	Injection Molding
Resin ID	SAN

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate			
(220 °C/10.0 kg)	25	cm³/10 min	ISO 1133
(230 °C/3.8 kg)	10	cm³/10 min	ISO 1133
Density	1.08	g/cm³	ISO 1183
Mechanical			
Tensile Strain at Break, (Type 1A, 5 mm/min)	3.0	%	ISO 527-2
Flexural Modulus, (2.0 mm/min)	3500	MPa	ISO 178
Tensile Stress at Break, (Type 1A, 5 mm/min)	70.0	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	3700	MPa	ISO 527-1
Flexural Stress, (2.0 mm/min, 3.0%)	105	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched, (Type 1, Edgewise, Notch A)	3.0	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched, (Type 1, Edgewise)	17	kJ/m²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	171	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	102	°C	ISO 306
(A (10N), 50 °C/h)	106	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	103	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	100	°C	ISO 75-2/A
Electrical			
Volume Resistivity	>1.0E+13	ohm*m	IEC 62631-3-1
Comparative Tracking Index (CTI)	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
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	220 to 250	°C
Mold Temperature	50 to 80	°C