

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 | cm ³ /10 min | ISO 1133 |
| (230 °C/3.8 kg) | 10 | cm ³ /10 min | ISO 1133 |
| Density | 1.08 | g/cm ³ | 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/m ² | ISO 179 |
| Charpy Impact Strength - Unnotched, (Type 1, Edgewise) | 17 | kJ/m ² | 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 |