

Properties

NF012A

Flame-retardant SAN resin

Transparence

| Properties | Test methods | Test conditions | Units | |
|---|---------------|-----------------|-------------|-----------|
| Melt mass-flow rate | ISO 1133 | 220 deg C/10kg | g/10min | 60 |
| Mold shrinkage | Daicel method | - | % | 0.3-0.5 |
| Tensile strength | ISO 527 | - | MPa | 69 |
| Flexural strength | ISO 178 | - | MPa | 100 |
| Flexural modulus | ISO 178 | - | MPa | 3600 |
| Notched Charpy impact strength | ISO 179/1eA | 23 deg C | kJ/m2 | 2 |
| Notched Izod impact strength | ASTM D256 | 23 deg C/6.4mm | J/m | 20 |
| Rockwell hardness | ISO 2039 | - | - | M79 |
| Deflection temperature under load | ISO 75 | 1.80MPa | deg C | 75 |
| Deflection temperature under load | ASTM D648 | 1.82MPa/12.7mm | deg C | 87 |
| Vicat softening temperature | ISO 306/B50 | 50N X 50deg C/h | deg C | 85 |
| Ball pressure temperature | - | - | deg C | 85 |
| Coefficient of linear thermal expansion | ISO 11359 | MD | X1E-5/deg C | 7 |
| Coefficient of linear thermal expansion | ISO 11359 | TD | X1E-5/deg C | - |
| Flammability | UL94 | - | - | V-2/1.7mm |
| Dielectric strength | ASTM D149 | 1.5mm | MV/m | 25 |
| Arc resistance | ASTM D495 | 3.0mm | sec(PLC) | 125(5) |
| Water absorption | ISO 62 | - | % | 0.3 |
| Density | ISO 1183 | - | g/cm3 | 1.11 |

Note

- Test methods such as ISO standards are fully or almost compliant with the standards.
- Values are typical, not quality assured.
- UL recognition File No. is E47773.
- The colorant formulations are restricted for each UL certified color. Please contact us for more information.

Typical settings for processing

| Preliminary drying | Barrel temperature(deg C) | | | | Screw rotation (rpm) | Back pressure (MPa) | Mold temperature (deg C) |
|----------------------|---------------------------|---------|---------|---------|----------------------|---------------------|--------------------------|
| | Nozzle | Front | Middle | Back | | | |
| 3-4hrs 70-80deg C | 170-190 | 170-190 | 160-170 | 150-160 | 40-60 | 5-15 | 40-60 |