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# NORYL™ Resin SA120

## Americas: COMMERCIAL

NORYL SA120 resin is a low molecular weight polymer based on Polyphenylene ether (PPE). NORYL SA120 is intended for use as additive or building block in a variety of thermoplastics, thermoplastic elastomers like Styrenic Block Copolymers, and thermoset materials like Epoxies, Phenolics, Polyurethanes, and Unsaturated Polyesters. Properties that may be improved by adding NORYL SA120 resin to these thermosets can include: Thermal (glass transition temperature), Adhesion (at elevated temperatures), Mechanical (toughness, dimensional stability), Chemical resistance (acids, bases), Moisture absorption, and Electrical Properties (dielectric constant, dissipation factor).

| TYPICAL PROPERTIES[1] | TYPICAL VALUE | Unit | Standard |
|---|---|---|---|
| **THERMAL** | | | |
| Tg (half width) | 165 | °C | SABIC Method |
| **PHYSICAL** | | | |
| Physical Form | PELLET | - | SABIC Method |
| Bulk Density | 1 | kg/m³ | ISO 1183 |
| Intrinsic Viscosity | 0.12 | dl/g | SABIC Method |
| Phenolic End-group Content | 425 | µ mol/g | SABIC Method |
| Gardner Color, 20% in Toluene, Initial | 12 | - | SABIC Method |
| Gardner Color, 20% in Toluene, Aged 177C, 24 hrs, nitrogen | 14 | - | SABIC Method |
| Mw | 6300 | - | SABIC Method |
| Mn | 2350 | - | SABIC Method |
| D | 2.7 | - | SABIC Method |
| Viscosity, pure, 240°C | 734 | poise | SABIC Method |
| **ELECTRICAL** | | | |
| Dielectric Constant, 1 MHz | 2.54 | - | ASTM D 150 |
| Dissipation Factor, 1 MHz | 0.0007 | - | ASTM D 150 |