



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/m ³	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