

NORYL™ SA120 resin

Polyphenylene Ether

SABIC Innovative Plastics

Message:

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).

General Information			
Features	Low molecular weight		
Uses	Additive		
Physical	Nominal Value	Unit	Test Method
Density ¹	1.02	g/cm ³	ISO 1183
1% weight loss (TGA)	290	°C	Internal method
D	2.70		Internal method
Decomposition Temperature - Onset (TGA)	440	°C	Internal method
Gardner color-20% in Toluene			Internal method
-- ²	12.0		Internal method
-- ³	14.0		Internal method
Mn	2350		Internal method
Mw	6300		Internal method
Phenolic End-group Content	425	μmol/g	Internal method
Tg (half width)	165	°C	Internal method
Intrinsic Viscosity	0.12	dl/g	Internal method
Viscosity-Pure(240°C)	73.4	Pa · s	Internal method
Softening Point - R&B;	210	°C	ASTM D36-95
Electrical	Nominal Value		Test Method
Dielectric Constant (1 MHz)	2.54		ASTM D150
Dissipation Factor (1 MHz)	7.0E-4		ASTM D150

NOTE	
1.	Bulk Density
2.	Initial
3.	Aged 177°C, 24 hrs, nitrogen

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