

## SABIC Innovative Plastics NORYL SA120FIN PPE

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO

### Material Notes:

Noryl\* SA120FIN resin is a powder version of a low molecular weight polymer based on Polyphenylene ether (PPE). Noryl\* SA120FIN 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\* SA120FIN 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).

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-NORYL-SA120FIN-PPE.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-SA120FIN-PPE.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.00100 g/cc	0.0000361 lb/in <sup>3</sup>	ISO 1183
Particle Size	<= 63 Åµm	<= 63 Åµm	10%; Malvern
	<= 125 Åµm	<= 125 Åµm	15%; Malvern
	<= 425 Åµm	<= 425 Åµm	45%; Malvern
	<= 710 Åµm	<= 710 Åµm	62%; Malvern
	<= 1000 Åµm	<= 1000 Åµm	100%; Malvern
Viscosity	73400 cP	73400 cP	SABIC Method
Viscosity Measurement	0.12	0.12	Intrinsic Viscosity [dl/g]; SABIC Method
Molecular Weight	6300 g/mol	6300 g/mol	Mw; SABIC Method

Thermal Properties	Metric	English	Comments
Transformation Temperature, Tg	165 Å°C	329 Å°F	half width; SABIC Method

Optical Properties	Metric	English	Comments
Gardner Color Number	12	12	20% in Toluene, Initial; SABIC Method
	14	14	20% in Toluene, Aged 177C, 24 hrs, nitrogen; SABIC Method

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.54	2.54	ASTM D150
	@Frequency 1.00e+6	@Frequency 1.00e+6	

Electrical Properties	Hz Metric	Hz English	Comments
Dissipation Factor	0.00070 @Frequency 1.00e+6 Hz	0.00070 @Frequency 1.00e+6 Hz	ASTM D150

Descriptive Properties	Value	Comments
Mn	2350	SABIC Method
Phenolic End-group Content	425Åµ mol/g	SABIC Method
Physical Form	POWDER	SABIC Method

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