

SABIC Innovative Plastics NORYL SA120 PPE

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO

Material Notes:

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).

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-SA120-PPE.php

Physical Properties	Metric	English	Comments
Bulk Density	0.00100 g/cc	0.0000361 lb/in ³	ISO 1183
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 Â°C	329 Â°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 Hz	@Frequency 1.00e+6 Hz	
Dissipation Factor	0.00070	0.00070	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Descriptive Properties	Value	Comments
Mn	2350	SABIC Method

Phenolic End-group Content Descriptive Properties	425Au mol/g Value	SABIC Method Comments
Physical Form	PELLET	SABIC Method

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