

## SABIC Innovative Plastics NORYL SE1GFN3 PPE+PS

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polystyrene (PS)

### Material Notes:

PPE+PS blend. 30% Glass reinforced. Non-brominated, non-chlorinated FR system. UL94 V1 listing. RTI 110/105/110. Dielectric strength. Dimensional stability. Suitable for E/E applications.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-NORYL-SE1GFN3-PPEPS.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-SE1GFN3-PPEPS.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Water Absorption	0.060 %	0.060 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	108	108	ASTM D785
Tensile Strength at Break	120 MPa	17400 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	5.0 %	5.0 %	Type I, 5 mm/min; ASTM D638
Flexural Yield Strength	172 MPa	24900 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	7.79 GPa	1130 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	1.17 J/cm	2.19 ft-lb/in	ASTM D256
	0.960 J/cm	1.80 ft-lb/in	
	@Temperature -40.0 Â°C	@Temperature -40.0 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.2 Âµm/m-Â°C	14.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 95.0 Â°C	@Temperature -40.0 - 203 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	140 Â°C	284 Â°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa	135 Â°C	275 Â°F	

Thermal Properties	Metric	English	Comments
UL RTI, Electrical	110 Å°C	230 Å°F	UL 746B
UL RTI, Mechanical with Impact	105 Å°C	221 Å°F	UL 746B
UL RTI, Mechanical without Impact	110 Å°C	230 Å°F	UL 746B
Flammability, UL94	V-1	V-1	UL 94
	@Thickness 1.47 mm	@Thickness 0.0579 in	
	V-0	V-0	UL 94
	@Thickness 5.99 mm	@Thickness 0.236 in	
Oxygen Index	35.5 %	35.5 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.15	3.15	ASTM D150
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
Dielectric Strength	20.8 kV/mm	528 kV/in	in oil; ASTM D149
	@Thickness 3.20 mm	@Thickness 0.126 in	
Dissipation Factor	0.0020	0.0020	ASTM D150
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
Arc Resistance	60 - 120 sec	60 - 120 sec	Tungsten; ASTM D495
Comparative Tracking Index	175 - 250 V	175 - 250 V	UL 746A
Hot Wire Ignition, HWI	>= 120 sec	>= 120 sec	UL 746A
High Amp Arc Ignition, HAI	30 - 60 arcs	30 - 60 arcs	UL 746A
High Voltage Arc-Tracking Rate, HVTR	>= 150 mm/min	>= 5.91 in/min	UL 746A

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China