

## SABIC Innovative Plastics NORYL SPN410 PPE+PS

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

### Material Notes:

Improved productivity. 210F (99C) DTUL. UL94 HB rated.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-NORYL-SPN410-PPEPS.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-SPN410-PPEPS.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ASTM D792
Water Absorption	0.070 %	0.070 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	35.0 MPa	5080 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	82 %	82 %	Type I, 50 mm/min; ASTM D638
Flexural Yield Strength	55.0 MPa	7980 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	1.83 GPa	265 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	3.73 J/cm	6.99 ft-lb/in	ASTM D256
	1.86 J/cm	3.48 ft-lb/in	
	@Temperature -40.0 Â°C	@Temperature -40.0 Â°F	ASTM D256
Gardner Impact	21.0 J	15.5 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 Âµm/m-Â°C	50.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 95.0 Â°C	@Temperature -40.0 - 203 Â°F	
CTE, linear, Transverse to Flow	90.0 Âµm/m-Â°C	50.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 -	@Temperature -40.0 -	

Thermal Properties	95.0 Å°C Metric	203 Å°F English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	98.0 Å°C @Thickness 6.40 mm	208 Å°F @Thickness 0.252 in	unannealed; ASTM D648
UL RTI, Electrical	50.0 Å°C	122 Å°F	UL 746B
UL RTI, Mechanical with Impact	50.0 Å°C	122 Å°F	UL 746B
UL RTI, Mechanical without Impact	50.0 Å°C	122 Å°F	UL 746B
Flammability, UL94	HB @Thickness 1.47 mm	HB @Thickness 0.0579 in	UL 94

Electrical Properties	Metric	English	Comments
Arc Resistance	60 - 120 sec	60 - 120 sec	Tungsten; ASTM D495
Comparative Tracking Index	>= 600 V	>= 600 V	UL 746A
Hot Wire Ignition, HWI	15 - 30 sec	15 - 30 sec	UL 746A
High Amp Arc Ignition, HAI	30 - 60 arcs	30 - 60 arcs	UL 746A
High Voltage Arc-Tracking Rate, HVTR	80.0 - 150 mm/min	3.15 - 5.91 in/min	UL 746A

## Contact Songhan Plastic Technology Co.,Ltd.

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