

## SABIC Innovative Plastics NORYL N300X PPE+PS (Asia Pacific)

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

**Material Notes:**

PPE+PS blend. Unfilled. Non-brominated, non-chlorinated FR system. UL94 V0. High heat. 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-N300X-PPEPS-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-N300X-PPEPS-Asia-Pacific.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792
Moisture Absorption at Equilibrium	0.060 %	0.060 %	ASTM D570
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	on Tensile Bar; SABIC Method
Melt Flow	7.4 g/10 min @Load 5.00 kg, Temperature 280 Å°C	7.4 g/10 min @Load 11.0 lb, Temperature 536 Å°F	ASTM D1238
Melt Index of Compound	7.0 g/10 min @Load 5.00 kg, Temperature 280 Å°C	7.0 g/10 min @Load 11.0 lb, Temperature 536 Å°F	MVR [cm <sup>3</sup> /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	ASTM D785
Tensile Strength at Break	66.0 MPa	9570 psi	ISO 527
	73.0 MPa	10600 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	74.0 MPa	10700 psi	Type I, 50 mm/min; ASTM D638
	75.0 MPa	10900 psi	ISO 527
Elongation at Break	7.6 %	7.6 %	Type I, 50 mm/min; ASTM D638
	13 %	13 %	ISO 527
Elongation at Yield	5.2 %	5.2 %	ISO 527
	5.3 %	5.3 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.22 GPa	322 ksi	1 mm/min; ISO 527

Mechanical Properties	2.38 GPa Metric	345 ksi English	5 mm/min: ASTM D638 Comments
Flexural Strength	112 MPa	16200 psi	ISO 178
Flexural Yield Strength	110 MPa	16000 psi	1.3 mm/min, 50 mm span; ASTM D790
	110 MPa	16000 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	2.50 GPa	363 ksi	2.6 mm/min, 100 mm span; ASTM D790
	2.52 GPa	365 ksi	ISO 178
	2.65 GPa	384 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.90 J/cm	3.56 ft-lb/in	ASTM D256
	0.550 J/cm	1.03 ft-lb/in	ASTM D256
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Izod Impact, Notched (ISO)	15.0 kJ/mÂ²	7.14 ft-lb/inÂ²	80*10*4; ISO 180/1A
Dart Drop, Total Energy	54.0 J	39.8 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 Âµm/m-Â°C	44.4 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	80.0 Âµm/m-Â°C	44.4 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	156 Â°C	313 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Be
	155 Â°C	311 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	140 Â°C	284 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
	140 Â°C	284 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	145 Â°C	293 Â°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	

Thermal Properties Vicat Softening Point	Metric 162 Â°C	English 322 Â°F	Comments Rate B/50; ISO 305
	164 Â°C	327 Â°F	Rate B/120; ISO 306
UL RTI, Electrical	105 Â°C	221 Â°F	UL 746B
UL RTI, Mechanical with Impact	105 Â°C	221 Â°F	UL 746B
UL RTI, Mechanical without Impact	105 Â°C	221 Â°F	UL 746B
Flammability, UL94	V-0 @Thickness 1.47 mm	V-0 @Thickness 0.0579 in	UL 94

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	ASTM D257
Surface Resistance	1.00e+17 ohm	1.00e+17 ohm	ASTM D257
Dielectric Constant	2.63 @Frequency 1.00e+6 Hz	2.63 @Frequency 1.00e+6 Hz	ASTM D150
	2.68 @Frequency 50.0 - 60.0 Hz	2.68 @Frequency 50.0 - 60.0 Hz	ASTM D150
Dielectric Strength	19.4 kV/mm @Thickness 3.20 mm	493 kV/in @Thickness 0.126 in	in oil; ASTM D149
Dissipation Factor	0.0031 @Frequency 50.0 - 60.0 Hz	0.0031 @Frequency 50.0 - 60.0 Hz	ASTM D150
	0.0090 @Frequency 1.00e+6 Hz	0.0090 @Frequency 1.00e+6 Hz	ASTM D150
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	0.00 - 15 arcs	0.00 - 15 arcs	UL 746A
High Voltage Arc-Tracking Rate, HVTR	>= 150 mm/min	>= 5.91 in/min	UL 746A

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