


## SABIC Noryl GTX GTX979 PPE+PA (Asia Pacific) (Unverified Data\*\*)





**Categories:** [Polymer](#); [Thermoplastic](#); [Nylon \(Polyamide PA\)](#); [Polyphenylene Ether/PPO](#)

**Material Notes:** NORYL GTX979 is a conductive, high heat material. It is especially designed for in- and on-line painted bodypanels and fenders in particular, with conductivity for electro-static painting in an unique way.



This data was supplied by SABIC-IP for the Asia Pacific region.

**Vendors:** No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM D 792
Density	1.08 g/cc	0.0390 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	1.2 %	1.2 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	4.2 % @Temperature 23.0 °C	4.2 % @Temperature 73.4 °F	ISO 62
Linear Mold Shrinkage, Flow	0.012 - 0.016 cm/cm @Thickness 3.20 mm	0.012 - 0.016 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.012 - 0.016 cm/cm @Thickness 3.20 mm	0.012 - 0.016 in/in @Thickness 0.126 in	SABIC Method
Melt Flow 	11 g/10 min @Load 5.00 kg, Temperature 280 °C	11 g/10 min @Load 11.0 lb, Temperature 536 °F	[cm <sup>3</sup> /10 min] Melt Volume Rate; ISO 1133
	15 g/10 min @Load 5.00 kg, Temperature 280 °C	15 g/10 min @Load 11.0 lb, Temperature 536 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	Type I, 50 mm/min; ASTM D 638
	50.0 MPa	7250 psi	50 mm/min; ISO 527
Tensile Strength, Yield	55.0 MPa	7980 psi	Type I, 50 mm/min; ASTM D 638
	55.0 MPa	7980 psi	50 mm/min; ISO 527
Elongation at Break	30 %	30 %	50 mm/min; ISO 527
	60 %	60 %	Type I, 50 mm/min; ASTM D 638
Elongation at Yield	4.0 %	4.0 %	50 mm/min; ISO 527
	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D 638
Tensile Modulus	2.00 GPa	290 ksi	50 mm/min; ASTM D 638
	2.10 GPa	305 ksi	1 mm/min; ISO 527
Flexural Yield Strength	80.0 MPa	11600 psi	1.3 mm/min, 50 mm span; ASTM D 790
	80.0 MPa	11600 psi	2 mm/min; ISO 178
Flexural Modulus	2.05 GPa	297 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	2.15 GPa	312 ksi	2 mm/min; ISO 178
Izod Impact, Notched 	1.50 J/cm @Temperature -30.0 °C	2.81 ft-lb/in @Temperature -22.0 °F	ASTM D 256
	2.20 J/cm @Temperature 23.0 °C	4.12 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Izod Impact, Notched (ISO) 	7.00 kJ/m <sup>2</sup> @Temperature -30.0 °C	3.33 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	80*10*4; ISO 180/1A
	17.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	8.09 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO) 	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	80*10*4; ISO 180/1U
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	80*10*4; ISO 180/1U
Charpy Impact, Notched 	1.20 J/cm <sup>2</sup> @Temperature -30.0 °C	5.71 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
	2.00 J/cm <sup>2</sup> @Temperature 23.0 °C	9.52 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
Instrumented Impact Total Energy	50.0 J @Temperature 23.0 °C	36.9 ft-lb @Temperature 73.4 °F	ASTM D 3763

Electrical Properties	Metric	English	Comments
Volume Resistivity	1000 - 10000 ohm-cm	1000 - 10000 ohm-cm	SABIC Method

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow 	95.0 µm/m-°C @Temperature -40.0 - 40.0 °C	52.8 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	96.0 µm/m-°C @Temperature 23.0 - 80.0 °C	53.3 µin/in-°F @Temperature 73.4 - 176 °F	ISO 11359-2
CTE, linear, Transverse to Flow 	96.0 µm/m-°C	53.3 µin/in-°F	ISO 11359-2

@Temperature 23.0 - 80.0 °C @Temperature 73.4 - 176 °F

100 µm/m-°C 55.6 µin/in-°F  
@Temperature -40.0 - 40.0 °C @Temperature -40.0 - 104 °F

ASTM E 831

Deflection Temperature at 0.46 MPa (66 psi)	178 °C	352 °F	Edgew 120*10*4 sp=100mm; ISO 75/Be
	185 °C @Thickness 3.20 mm	365 °F @Thickness 0.126 in	unannealed; ASTM D 648
Vicat Softening Point	180 °C	356 °F	Rate B/50; ASTM D 1525
	180 °C	356 °F	Rate B/50; ISO 306
	182 °C	360 °F	Rate B/120; ISO 306
Glow Wire Flammability Index	650 °C @Thickness 3.20 mm	1200 °F @Thickness 0.126 in	IEC 60695-2-12

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