

**SABIC NORYL GTX GTX986 PPE+PA66 (Europe-Africa-Middle East) (Unverified Data\*\*)**

Categories: [Polymer](#); [Thermoplastic](#); [Nylon \(Polyamide PA\)](#); [Nylon 66 \(PA66\)](#); [Polyphenylene Ether/PPO](#)

Material Notes: Conductive GTX, CTE 6

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	<a href="#">1.34</a> g/cc	<a href="#">1.34</a> g/cc	ASTM D792
Density	<a href="#">1.34</a> g/cc	<a href="#">0.0484</a> lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.800 %	0.800 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	3.0 %	3.0 %	ISO 62
Linear Mold Shrinkage, Flow	<a href="#">0.010</a> - <a href="#">0.014</a> cm/cm @Thickness 3.20 mm	<a href="#">0.010</a> - <a href="#">0.014</a> in/in @Thickness 0.126 in	SABIC Method
Melt Flow	<a href="#">16</a> g/10 min @Load 5.00 kg, Temperature 280 °C	<a href="#">16</a> g/10 min @Load 11.0 lb, Temperature 536 °F	ASTM D1238
Melt Index of Compound	<a href="#">13</a> g/10 min @Load 5.00 kg, Temperature 280 °C	<a href="#">13</a> g/10 min @Load 11.0 lb, Temperature 536 °F	MVR [cm <sup>3</sup> /10 min]; ISO 1133
Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	<a href="#">50.0</a> MPa <a href="#">65.0</a> MPa	<a href="#">7250</a> psi <a href="#">9430</a> psi	Type I, 50 mm/min; ASTM D638 50 mm/min; ISO 527
Tensile Strength, Yield	<a href="#">50.0</a> MPa <a href="#">65.0</a> MPa	<a href="#">7250</a> psi <a href="#">9430</a> psi	Type I, 50 mm/min; ASTM D638 50 mm/min; ISO 527
Elongation at Break	10 % 15 %	10 % 15 %	Type I, 50 mm/min; ASTM D638 50 mm/min; ISO 527
Elongation at Yield	5.0 % 5.0 %	5.0 % 5.0 %	Type I, 50 mm/min; ASTM D638 50 mm/min; ISO 527
Tensile Modulus	<a href="#">3.10</a> GPa <a href="#">3.70</a> GPa	<a href="#">450</a> ksi <a href="#">537</a> ksi	50 mm/min; ASTM D638 1 mm/min; ISO 527
Flexural Yield Strength	<a href="#">80.0</a> MPa <a href="#">100</a> MPa	<a href="#">11600</a> psi <a href="#">14500</a> psi	1.3 mm/min, 50 mm span; ASTM D790 2 mm/min; ISO 178
Flexural Modulus	<a href="#">2.80</a> GPa <a href="#">3.70</a> GPa	<a href="#">406</a> ksi <a href="#">537</a> ksi	1.3 mm/min, 50 mm span; ASTM D790 2 mm/min; ISO 178
Izod Impact, Notched	<a href="#">0.800</a> J/cm <a href="#">0.600</a> J/cm @Temperature -30.0 °C	<a href="#">1.50</a> ft-lb/in <a href="#">1.12</a> ft-lb/in @Temperature -22.0 °F	ASTM D256 ASTM D256
Izod Impact, Notched (ISO)	<a href="#">10.0</a> kJ/m <sup>2</sup> <a href="#">6.00</a> kJ/m <sup>2</sup> @Temperature -30.0 °C	<a href="#">4.76</a> ft-lb/in <sup>2</sup> <a href="#">2.86</a> ft-lb/in <sup>2</sup> @Temperature -22.0 °F	80*10*4; ISO 180/1A 80*10*4; ISO 180/1A
Charpy Impact, Notched	<a href="#">1.30</a> J/cm <sup>2</sup>	<a href="#">6.19</a> ft-lb/in <sup>2</sup>	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	<a href="#">6.00</a> J @Temperature 23.0 °C	<a href="#">4.43</a> ft-lb @Temperature 73.4 °F	ASTM D3763
Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow <input type="checkbox"/>	<a href="#">50.0</a> µm/m-°C @Temperature -40.0 - 60.0 °C	<a href="#">27.8</a> µin/in-°F @Temperature -40.0 - 140 °F	ASTM E 831
	<a href="#">60.0</a> µm/m-°C @Temperature 23.0 - 60.0 °C	<a href="#">33.3</a> µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
CTE, linear, Transverse to Flow <input type="checkbox"/>	<a href="#">65.0</a> µm/m-°C @Temperature -40.0 - 60.0 °C	<a href="#">36.1</a> µin/in-°F @Temperature -40.0 - 140 °F	ASTM E 831
	<a href="#">70.0</a> µm/m-°C @Temperature 23.0 - 60.0 °C	<a href="#">38.9</a> µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	<a href="#">192</a> °C <a href="#">200</a> °C @Thickness 3.20 mm	<a href="#">378</a> °F <a href="#">392</a> °F @Thickness 0.126 in	Flatw 80*10*4 sp=64mm; ISO 75/Bf unannealed; ASTM D648
Vicat Softening Point	<a href="#">195</a> °C <a href="#">202</a> °C	<a href="#">383</a> °F <a href="#">396</a> °F	Rate B/50; ISO 306 Rate B/50; ASTM D1525

~~404~~ °C  
205 °C

~~770~~ °F  
401 °F

~~Rate B/120; ASTM D1323~~  
Rate B/120; ISO 306

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