

**Product Texts**

NORYL GTX™ 934 resin is a non-reinforced alloy of Polyphenylene Ether (PPE) + Polyamide (PA). This injection moldable grade exhibits improved processability and excellent heat aging performance. NORYL GTX934 resin was designed for high heat automotive under-the-hood applications.

UL Yellow Card Link [F45329-100066674](https://www.ul.com/yellow-card/F45329-100066674)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	13	cm <sup>3</sup> /10min	ISO 1133
Temperature	280	°C	-
Load	5	kg	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	13	g/10min	ASTM D 1238
Temperature	280	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2400	MPa	ISO 527
Yield stress	65	MPa	ISO 527
Yield strain	4.5	%	ISO 527
Stress at break	55	MPa	ISO 527
Strain at break	25	%	ISO 527
Flexural modulus	2200	MPa	ISO 178
Charpy notched impact strength, +23°C	20	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	10	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C, 4mm	20	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	10	kJ/m <sup>2</sup>	ISO 180/1A
Ball indentation hardness	85	MPa	ISO 2039-1
<b>ASTM Data</b>			
Tensile Modulus	2300	MPa	ASTM D 638
Tensile Strength at Yield	65	MPa	ASTM D 638
Tensile Strength at Break	55	MPa	ASTM D 638
Elongation at Yield	5	%	ASTM D 638
Elongation at Break	60	%	ASTM D 638
Flexural Modulus	2350	MPa	ASTM D 790
Izod Impact notched, 1/8 in	220	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	100	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Vicat softening temperature, A	250	°C	ISO 306
Vicat softening temperature, B	200	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	205	°C	ISO 306
Coeff. of linear therm. expansion, parallel	80	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	70	E-6/K	ISO 11359-1/-2
Thermal Conductivity	0.23	W/(m K)	DIN 52616
<b>ASTM Data</b>			
DTUL @ 66 psi	190	°C	ASTM D 648
Vicat Temperature	205	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Water absorption	3.5	%	Sim. to ISO 62
Humidity absorption	1.21	%	Sim. to ISO 62
Density	1090	kg/m <sup>3</sup>	ISO 1183
Density	1090	kg/m <sup>3</sup>	ASTM D 792

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>100 - 120</b>	°C	-
Pre-drying - Time	<b>2 - 3</b>	h	-
Processing humidity	<b>≤0.07</b>	%	-
Melt temperature	<b>290 - 320</b>	°C	-
Mold temperature	<b>80 - 120</b>	°C	-
Feed temperature	<b>60 - 80</b>	°C	-
Zone 1	<b>260 - 280</b>	°C	-
Zone 2	<b>280 - 300</b>	°C	-
Zone 3	<b>290 - 320</b>	°C	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

Asia Pacific