

Product Texts

NORYL GTX™ 9400W resin is a non-reinforced alloy of Polyphenylene Ether (PPE) + Polyamide (PA) that exhibits high heat resistance, high flow, and added mold release. NORYL GTX9400W resin is injection moldable and an excellent candidate for automotive under-the-hood applications such as power distribution boxes, relay boxes, connectors, sensors, and fuse box covers.

UL Yellow Card Link [E207780-615350](https://www.ul.com/yellow-card-link/E207780-615350)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	97	g/10min	ASTM D 1238
Temperature	280	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Yield stress	69	MPa	ISO 527
Strain at break	39	%	ISO 527
Flexural modulus	2700	MPa	ISO 178
Izod notched impact strength, +23°C, 4mm	21	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	1950	MPa	ASTM D 638
Tensile Strength at Yield	64	MPa	ASTM D 638
Tensile Strength at Break	62	MPa	ASTM D 638
Elongation at Yield	11	%	ASTM D 638
Elongation at Break	40	%	ASTM D 638
Izod Impact notched, 1/8 in	256	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	112	J/m	ASTM D 256
Temperature	-30	°C	-
Izod Impact unnotched, 1/8 in	849	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	78	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	187	°C	ISO 75-1/-2
Vicat softening temperature, B	203	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
ASTM Data			
DTUL @ 66 psi	190	°C	ASTM D 648
DTUL @ 264 psi	83	°C	ASTM D 648
Vicat Temperature	212	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1100	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	95 - 105	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.07	%	-
Melt temperature	270 - 295	°C	-
Mold temperature	65 - 95	°C	-
Zone 1	255 - 295	°C	-
Zone 2	260 - 295	°C	-
Zone 3	265 - 295	°C	-
Screw speed	20 - 100	rpm	-
Back pressure	0.3 - 1.4	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

Asia Pacific

Applications

Automotive