

Product Texts

NORYL GTX™ 951W resin is a non-reinforced alloy of Polyphenylene Ether (PPE) + Polyamide (PA). This injection moldable grade exhibits high heat resistance, excellent chemical resistance, high melt flow, and added mold release. NORYL GTX951W resin was designed for automotive under-the-hood applications such as power distribution boxes, relay boxes, and junction boxes.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Density of melt	955	kg/m ³	-
Thermal conductivity of melt	0.2	W/(m K)	-
Spec. heat capacity of melt	1500	J/(kg K)	-
Ejection temperature	216	°C	-
ASTM Data			
Melt Flow Index, MFI	65	g/10min	ASTM D 1238
Temperature	280	°C	-
Load	5	kg	-
Mold Shrinkage, MD	1.55	mm/mm	ASTM D 955
Mold Shrinkage, TD	1.35	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2500	MPa	ISO 527
Yield stress	66	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	2370	MPa	ISO 178
ASTM Data			
Tensile Modulus	2250	MPa	ASTM D 638
Tensile Strength at Yield	65	MPa	ASTM D 638
Tensile Strength at Break	57	MPa	ASTM D 638
Elongation at Yield	5	%	ASTM D 638
Elongation at Break	55	%	ASTM D 638
Izod Impact notched, 1/8 in	211	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
ISO Data			
Coeff. of linear therm. expansion, parallel	100	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	100	E-6/K	ISO 11359-1/-2

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Dielectric Strength, Short Time	22.4	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	0.017	-	ASTM D 150

Other properties	Value	Unit	Test Standard
Density	1110	kg/m ³	ISO 1183
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

Europe

Applications

Automotive