

Product Texts

NORYL GTX™ 909 resin is a non-reinforced alloy of Polyphenylene Ether (PPE) + Polyamide (PA). This injection moldable grade exhibits high impact performance, high heat resistance, and excellent chemical resistance. NORYL GTX909 resin may be an excellent candidate for various exterior automotive applications such as door handles and wheel covers.

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Yield	66	MPa	ASTM D 638
Tensile Strength at Break	59	MPa	ASTM D 638
Elongation at Yield	9	%	ASTM D 638
Elongation at Break	50	%	ASTM D 638
Izod Impact notched, 1/8 in	176	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	106	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
ASTM Data			
Vicat Temperature	245	°C	ASTM D 1525

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Dielectric Strength, Short Time	25.5	kV/mm	ASTM D 149
Dissipation Factor, 60 Hz	0.039	-	ASTM D 150
Dissipation Factor, 1 MHz	0.019	-	ASTM D 150
Dielectric Constant, 60 Hz	3.27	-	ASTM D 150
Dielectric Constant, 1 MHz	2.76	-	ASTM D 150
Surface Resistivity	>1E15	Ohm	ASTM D 257
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	1130	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
North America

Applications
Automotive