

**Product Texts**

NORYL GTX™ APS430 resin is a 30% glass reinforced alloy of Polyphenylene Ether (PPE) + Polyphenylene Sulfide (PPS). This injection moldable grade has a UL V0 flame rating, non-brominated, non-chlorinated FR, high stiffness, excellent chemical resistance, and high heat resistance. NORYL GTX APS430 resin is an excellent candidate for electrical and lighting connector applications.

UL Yellow Card Link: [E45587-100154477](https://www.ul.com/yellow-card/E45587-100154477)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	43.6	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	5	kg	-
Mold Shrinkage, MD	0.005	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Flexural Modulus	8620	MPa	ASTM D 790
Flexural Strength	166	MPa	ASTM D 790
Izod Impact notched, 1/8 in	78	J/m	ASTM D 256
<b>Other Standards<sup>[S]</sup></b>			
Tensile Strength at Yield	122	MPa	Producer Method
Elongation at Break	10	%	Producer Method

S: These properties are reported by the producer according standards that are different to our defaults.

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
Yellow Card available	yes	-	-
<b>ASTM Data</b>			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	0.8	mm	-
Coefficient of Thermal Expansion, MD	58	E-6/K	ASTM D 696
DTUL @ 264 psi	255	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Dielectric Constant, 60 Hz	3.3	-	ASTM D 150
Surface Resistivity	1E16	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.02	%	ASTM D 570
Density	1480	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120 - 150	°C	-
Pre-drying - Time	2 - 5	h	-
Melt temperature	290 - 310	°C	-
Mold temperature	120 - 140	°C	-
Zone 1	280 - 300	°C	-
Zone 2	280 - 310	°C	-
Zone 3	280 - 310	°C	-
Nozzle temperature	290 - 310	°C	-
Screw speed	40 - 60	rpm	-
Back pressure	5 - 14	MPa	-

**Characteristics**

**Processing**

Injection Molding

**Applications**

Electrical and Electronical

**Special Characteristics**

Flame retardant, Halogen-free, Heat stabilized or stable to heat

**Regional Availability**

Asia Pacific

**Chemical Resistance**

General Chemical Resistance