

NORYL GTX™ RESIN APS430

REGION ASIA

DESCRIPTION

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.

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	122	MPa	SABIC - Japan Method
Tensile Strain, break	10	%	SABIC - Japan Method
Flexural Stress	166	MPa	ASTM D790
Flexural Modulus	8620	MPa	ASTM D790
IMPACT			
Izod Impact, notched, 23°C	78	J/m	ASTM D256
THERMAL			
HDT, 1.82 MPa, 6.4 mm, unannealed	255	°C	ASTM D648
CTE, -30°C to 30°C	1.8E-05 – 5.8E-05	1/°C	TMA
PHYSICAL			
Specific Gravity	1.48	-	ASTM D792
Water Absorption, (23°C/24hrs)	0.02	%	ASTM D570
Mold Shrinkage, flow, 3.2 mm	0.3 – 0.7	%	SABIC method
Melt Flow Rate, 300°C/5.0 kgf	43.6	g/10 min	ASTM D1238
ELECTRICAL			
Surface Resistivity	1.E+16	Ω	ASTM D257
Relative Permittivity, 50/60 Hz	3.3	-	ASTM D150
FLAME CHARACTERISTICS ⁽¹⁾			
UL Yellow Card Link	E45587-100154477	-	-
UL Recognized, 94V-0 Flame Class Rating	≥0.8	mm	UL 94
INJECTION MOLDING			
Drying Temperature	120 – 150	°C	
Drying Time	2 – 5	Hrs	
Melt Temperature	290 – 310	°C	
Rear - Zone 1 Temperature	280 – 300	°C	
Middle - Zone 2 Temperature	280 – 310	°C	
Front - Zone 3 Temperature	280 – 310	°C	
Nozzle Temperature	290 – 310	°C	
Mold Temperature	120 – 140	°C	
Screw Speed	40 – 60	rpm	
Back pressure (Plastic Pressure)	5 – 14	MPa	

(1) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.



ADDITIONAL PRODUCT NOTES

No PFAS intentionally added: The grade listed in this document does not contain PFAS intentionally added during Seller's manufacturing process and is not expected to contain unintentional PFAS impurities. Each user is responsible for evaluating the presence of unintentional PFAS impurities.

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