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 and may offer high stiffness, excellent chemical resistance and high heat resistance. Noryl GTX™ APS430 resin may be an excellent candidate for electrical and lighting connector applications.

TYPICAL PROPERTY VALUES

Revision 20200122

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 D 790
Flexural Modulus	8620	MPa	ASTM D 790
IMPACT			
Izod Impact, notched, 23°C	78	J/m	ASTM D 256
THERMAL			
HDT, 1.82 MPa, 6.4 mm, unannealed	255	°C	ASTM D 648
CTE, -30°C to 30°C	0.000018 – 0.000058	1/°C	TMA
PHYSICAL			
Specific Gravity	1.48	-	ASTM D 792
Water Absorption, 24 hours	0.02	%	ASTM D 570
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 D 1238
ELECTRICAL			
Surface Resistivity	1.E+16	Ohm	ASTM D 257
Relative Permittivity, 50/60 Hz	3.3	-	ASTM D 150
FLAME CHARACTERISTICS (1)			
UL Recognized, 94V-0 Flame Class Rating	≥0.8	mm	UL 94

(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.

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