

NORYL GTX™ RESIN APS130

REGION ASIA

DESCRIPTION

PPE+PPS GF30%

TYPICAL PROPERTY VALUES

Revision 20180905

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	112	MPa	SABIC - Japan Method
Tensile Strain, break	8 – 8	%	SABIC - Japan Method
Flexural Stress	156	MPa	ASTM D 790
Flexural Modulus	8430	MPa	ASTM D 790
IMPACT			
Izod Impact, notched, 23°C	88	J/m	ASTM D 256
THERMAL			
HDT, 0.45 MPa, 6.4 mm, unannealed	267	°C	ASTM D 648
CTE, -30°C to 30°C	0.000025 – 0.000055	1/°C	TMA
PHYSICAL			
Specific Gravity	1.44	-	ASTM D 792
Water Absorption, 24 hours	0.02	%	ASTM D 570
Mold Shrinkage, flow, 3.2 mm	0.25 – 0.7	%	SABIC method
Melt Flow Rate, 300°C/5.0 kgf	29.1	g/10 min	ASTM D 1238
ELECTRICAL			
Surface Resistivity	1.E+16	Ohm	ASTM D 257
Dielectric Strength, in oil, 1.6 mm	22.1	kV/mm	ASTM D 149
Relative Permittivity, 50/60 Hz	3.3	-	ASTM D 150
INJECTION MOLDING			
Drying Temperature	120 – 150	°C	
Drying Time	4 – 8	hrs	
Drying Time (Cumulative)	24	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	300 – 330	°C	
Nozzle Temperature	300 – 330	°C	
Front - Zone 3 Temperature	295 – 325	°C	
Middle - Zone 2 Temperature	290 – 320	°C	
Rear - Zone 1 Temperature	280 – 315	°C	
Mold Temperature	95 – 150	°C	
Back Pressure	0.7 – 1.4	MPa	
Screw Speed	50 – 100	rpm	
Shot to Cylinder Size	40 – 60	%	
Vent Depth	0.025 – 0.076	mm	



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