

NORYL GTX™ RESIN GTX870

REGION ASIA

DESCRIPTION

NORYL GTX870 resin is a 20% glass reinforced alloy of Polyphenylene Ether (PPE) + Polyamide (PA). This injection moldable grade exhibits high stiffness, excellent chemical resistance, and high heat resistance. NORYL GTX870 resin is an excellent candidate for a wide variety of applications including electrical connectors and electronic base stations.

TYPICAL PROPERTY VALUES

Revision 20241015

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	117	MPa	SABIC - Japan Method
Tensile Stress, yld, Type I, 5 mm/min	122	MPa	ASTM D638
Tensile Strain, break	12	%	SABIC - Japan Method
Tensile Strain, brk, Type I, 5 mm/min	5	%	ASTM D638
Flexural Stress	166	MPa	ASTM D790
Flexural Modulus	5680	MPa	ASTM D790
IMPACT			
Izod Impact, notched, 23°C	117	J/m	ASTM D256
THERMAL			
HDT, 1.82 MPa, 6.4 mm, unannealed	200	°C	ASTM D648
CTE, -30°C to 30°C	0.00004 – 0.00006	1/°C	TMA
PHYSICAL			
Specific Gravity	1.24	-	ASTM D792
Water Absorption, (23°C/24hrs)	0.5	%	ASTM D570
Mold Shrinkage, flow, 3.2 mm	0.4 – 0.8	%	SABIC method
INJECTION MOLDING			
Drying Temperature	95 – 105	°C	
Drying Time	3 – 4	Hrs	
Drying Time (Cumulative)	8	Hrs	
Maximum Moisture Content	0.07	%	
Melt Temperature	280 – 305	°C	
Nozzle Temperature	280 – 305	°C	
Front - Zone 3 Temperature	275 – 305	°C	
Middle - Zone 2 Temperature	270 – 305	°C	
Rear - Zone 1 Temperature	265 – 305	°C	
Mold Temperature	75 – 120	°C	
Back Pressure	0.3 – 1.4	MPa	
Screw Speed	20 – 100	rpm	
Shot to Cylinder Size	30 – 50	%	
Vent Depth	0.013 – 0.038	mm	



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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