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	

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