NORYL GTX™ RESIN GTX626

REGION AMERICAS

DESCRIPTION

NORYL GTX626 resin is a non-reinforced alloy of Polyphenylene Ether (PPE) + Polyamide (PA). This blow moldable and extrudable grade exhibits high heat resistance and excellent chemical resistance. NORYL GTX626 resin may be an excellent candidate for exterior automotive applications such as wheel covers and wheel trim.

GENERAL INFORMATION	
Features	Chemical Resistance, Hydrolytic Stability, Low Warpage, Low Shrinkage, Low Moisture Absorption, Low Specific Gravity, Creep resistant, Dimensional stability, High stiffness/Strength, High temperature resistance, Impact resistant, No PFAS intentionally added
Fillers	Unreinforced
Polymer Types	Polyphenylene Ether + PA (PPE+Nylon)
Processing Techniques	Extrusion Blow Molding, Extrusion

INDUSTRY	SUB INDUSTRY
Automotive	Heavy Truck, Automotive Exteriors, Recreational/Specialty Vehicles

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Stress, yld, Type I, 50 mm/min	62	MPa	ASTM D638
Tensile Strain, brk, Type I, 50 mm/min	83	%	ASTM D638
Flexural Stress, yld, 2.6 mm/min, 100 mm span	95	MPa	ASTM D790
Flexural Modulus, 2.6 mm/min, 100 mm span	2270	MPa	ASTM D790
IMPACT [1]			
Izod Impact, notched, 23°C	336	J/m	ASTM D256
Izod Impact, notched, -30°C	122	J/m	ASTM D256
Instrumented Dart Impact Energy @ peak, 23°C	31	J	ASTM D3763
Instrumented Dart Impact Energy @ peak, -30°C	36	J	ASTM D3763
THERMAL [1]			
HDT, 0.45 MPa, 6.4 mm, unannealed	179	°C	ASTM D648
PHYSICAL [1]			
Specific Gravity	1.09	-	ASTM D792
Mold Shrinkage, flow, 3.2 mm [2]	1.3 – 1.4	%	SABIC method
FLAME CHARACTERISTICS [3]			
UL Yellow Card Link	E121562-220758	-	-
UL Recognized, 94HB Flame Class Rating	≥1.5	mm	UL 94
EXTRUSION BLOW MOLDING			
Drying Temperature	80	°C	
Drying Time	4	Hrs	
Drying Time (Cumulative)	16	Hrs	

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Melt Temperature (Parison)	275 – 290	°C	
Barrel - Zone 1 Temperature	270 – 280	°C	
Barrel - Zone 2 Temperature	270 – 280	°C	
Barrel - Zone 3 Temperature	270 – 280	°C	
Barrel - Zone 4 Temperature	270 – 280	°C	
Adapter - Zone 5 Temperature	275 – 290	°C	
Head - Zone 6 - Top Temperature	275 – 290	°C	
Head - Zone 7 - Bottom Temperature	275 – 290	°C	
Mold Temperature	80	°C	
Die Temperature	275 – 290	°C	

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

(3) 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.

DISCLAIMER