NORYL™ RESIN GFN3L

NORYL(TM) GFN3L RESIN
REGION ASIA

DESCRIPTION

NORYL™ GFN3L resin is a 30% glass reinforced blend of polyphenylene ether (PPE) + high impact polystyrene (HIPS). This injection moldable grade exhibits improved hydrolytic stability along with very low moisture absorption, high strength, Low warp, low specific gravity, and excellent dimensional stability. NORYL GFN3L carries a UL HB flame rating and is an excellent candidate for a variety of indoor and outdoor applications including construction, electrical components + displays, lawn and garden equipment. *See NORYL GFN3F resin for FDA food compliant / NSF version

TYPICAL PROPERTY VALUES

Revision 20190828

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	117	MPa	SABIC - Japan Method
Tensile Strain, break	8 – 10	%	SABIC - Japan Method
Flexural Stress	159	MPa	ASTM D 790
Flexural Modulus	7440	MPa	ASTM D 790
Hardness, Rockwell R	121	-	ASTM D 785
IMPACT			
Izod Impact, notched, 23°C	127	J/m	ASTM D 256
THERMAL			
HDT, 1.82 MPa, 6.4 mm, unannealed	140	°C	ASTM D 648
CTE, -30°C to 30°C	0.00002 – 0.000043	1/°C	TMA
PHYSICAL			
Specific Gravity	1.31	-	ASTM D 792
Water Absorption, 24 hours	0.06	%	ASTM D 570
Mold Shrinkage, flow, 3.2 mm	0.2 – 0.3	%	SABIC method
Melt Flow Rate, 300°C/5.0 kgf	8.3	g/10 min	ASTM D 1238
ELECTRICAL			
Surface Resistivity	1.E+16	Ohm	ASTM D 257
Relative Permittivity, 50/60 Hz	2.93	-	ASTM D 150
Arc Resistance, Tungsten {PLC}	6	PLC Code	ASTM D 495
FLAME CHARACTERISTICS			
UL Recognized, 94HB Flame Class Rating	1.5	mm	UL 94

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