



NORYL SE1GFN2

Product Portfolio | Product Lines | NORYL

USA: Commercial

GR 20%. 270F (132C) DTUL. UL94 V-1 rated. Halogen free flame retardant. For electrical construction applications.

Processing

INJECTION MOULDING-USA

NOR-IM-10

Drying Temperature	230-250	deg F
Drying Time (basic)	3-4	h
Drying Time (cumulative)	8	h
Moisture Content, Max	0.02	%
Moisture Content, Min	-	%
Melt Temperature	570-620	deg F
Nozzle	570-620	deg F
Front	550-620	deg F
Middle	530-610	deg F
Rear	510-600	deg F
Mold Temperature	180-230	deg F
Back Pressure	50-100	psi
Screw Speed	20-100	rpm
Shot to Cylinder Size	30-70	%
Clamp Tonnage	-	tons/psi
Vent Depth	-	inch

Source Eris, last updated: 2000/10/

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Properties

MECHANICAL

Property	Typical Data	Unit	Method
Tensile Str, brk, Type I, 0.2 in/min	15500	psi	ASTM D 638
Tensile Elong, brk, Type I, 0.2 in/min	5.0	%	ASTM D 638
Flex Stress, yld, 0.10 in/min, 4" span	22000	psi	ASTM D 790
Flex Mod, 0.10 in/min, 4" span	830000	psi	ASTM D 790
Hardness, Rockwell L	106	-	ASTM D 785
Hardness, Rockwell L	106	-	ASTM D 785

IMPACT

Property	Typical Data	Unit	Method
Izod Impact, notched, 73F	2.0	ft-lb/in	ASTM D 256
Izod Impact, notched, -40F	1.8	ft-lb/in	ASTM D 256

THERMAL

Property	Typical Data	Unit	Method
HDT, 66 psi, 0.250", unannealed	280	deg F	ASTM D 648

HDT, 264 psi, 0.250", unannealed	270 deg F	ASTM D 648
CTE, flow, -40F to 200F	2 E-5 1/F	ASTM E 831
Thermal Index, Elec Prop	110 deg C	UL 746B
Thermal Index, Mech Prop with impact	105 deg C	UL 746B
Thermal Index, Mech prop without impact	110 deg C	UL 746B

PHYSICAL

Property	Typical Data	Unit	Method
Specific Gravity, solid	1.23	-	ASTM D 792
Water Absorption, 24 hours @ 73F	0.060	%	ASTM D 570
Mold Shrinkage, flow, 0.125"	2-5	in/in E-3	ASTM D 955

ELECTRICAL

Property	Typical Data	Unit	Method
Dielectric Strength, in oil, 125 mils	600	V/mil	ASTM D 149
Dielectric Constant, 60 Hz	2.98	-	ASTM D 150
Dissipation Factor, 60 Hz	0.0016	-	ASTM D 150
Arc Resistance, Tungsten (+/- 0.125")	7	PLC Code	ASTM D 495
Hot Wire Ignition (+/- 0.125")	0	PLC Code	UL 746A
High Voltage Arc Track Rate (+/- 0.125")	4	PLC Code	UL 746A
High Amp Arc Ign, surface (+/- 0.125")	1	PLC Code	UL 746A
Comparative Track Index (+/- 0.125")	1	PLC Code	UL 746A
Dielectric Strength, in oil, 125 mils	600	V/mil	ASTM D 149

FLAME CHARACTERISTICS

Property	Typical Data	Unit	Method
UL File Number, USA	E121562	-	-
V-1 Rated (tested thickness)	0.058	inch	UL 94
V-0 Rated (tested thickness)	0.236	inch	UL 94
Oxygen Index (LOI)	27.0	%	ASTM D 2863
Oxygen Index (LOI)	27.0	%	ASTM D 2863

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