

NORYL[™] RESIN SE1GFN1

REGION AMERICAS

DESCRIPTION

NORYL[™] SE1GFN1 resin is a 10% glass reinforced blend of polyphenylene ether (PPE) + high impact polystyrene (HIPS). This injection moldable grade contains non-brominated, non-chlorinated flame retardant and carries a UL94 flame rating of V1 at 1.5mm along with UL746C Outdoor Suitability rating of F1 and RTI 110C. NORYL SE1GFN1 exhibits high heat resistance, good dielectric strength, dimensional stability, hydrolytic stability, and very low moisture absorption. This material is an excellent candidate for solar / photovoltaic (PV) junction boxes, appliance internals, indoor and outdoor electrical enclosures / housings / connectors.

TYPICAL PROPERTY VALUES

Revision 20200610

MECHANICA Tensile Stress, bit, Type 1,5 mm/min 47 48 ASIM D6 8 Tensile Stress, bit, Type 1,5 mm/min 5 48 ASIM D6 8 Flexural Stress, bits, 1,3 mm/min, 50 mm span 190 MPa ASIM D7 90 Bezural Modulus, 1,3 mm/min, 50 mm span 3990 MPa ASIM D7 90 Hardes, Rockwell L 5 3 mm ASIM D7 90 Hardes, Rockwell L 5 3 mm ASIM D7 90 Hardes, Rockwell L 5 3 mm ASIM D7 90 Hardes, Rockwell L 6 1 mm ASIM D7 90 Bodinger, notched, 23°C 9 2 mm ASIM D5 90 Bodinger, Indeed, 40°C 3 mm ASIM D5 90 ASIM D5 90 HERWIT 1 2 2 mm ASIM D5 90 HERWIT 1 2 2 mm ASIM D6 90 HERWIT 1 2 2 mm ASIM D6 90 HERWIT 1 2 2 mm ASIM D6 90 HERWIT 2 2 2 mm ASIM D6 90	PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Tensile Strain, br., Type 5 mm/min 5 ASTM D 638 Flexural Stress, brk, 1.3 mm/min, 50 mm span 199 MPa ASTM D 790 Flexural Modulus, 1.3 mm/min, 50 mm span 3990 MPa ASTM D 790 Marchness, Rockwell L 10 40 MPa ASTM D 790 MARCT V V V V V Izod Impact, notched, 40°C 96 Jm ASTM D 256 ASTM D 256 Izod Impact, notched, 40°C 96 Jm ASTM D 256 ASTM D 256 Veat Softeng Temp, Rate B 50 41 9 C ASTM D 1525 ASTM D 648 A	MECHANICAL			
Flexural Stress, br.k. 1.3 mm/min, 50 mm span 19 MPa ASTM D 790 Flexural Modulus, 1.3 mm/min, 50 mm span 3990 MPa ASTM D 790 Bardness, Rockwell L 104 2 ASTM D 780 IMPACT V MID 785 ASTM D 785 Izo dol Impact, notched, 20°C 9 MP ASTM D 256 Izo dol Impact, notched, 40°C 69 Jm ASTM D 256 Izo dol Impact, notched, 40°C 69 Jm ASTM D 256 Izo dol Impact, notched, 40°C 69 7 ASTM D 256 Izo dol Impact, notched, 40°C 40 2 ASTM D 256 Izo dol Impact, notched, 40°C 10 2 ASTM D 256 Izo dol Impact, notched, 40°C 10 2 ASTM D 256 Bell Street Bloom, 10 10 2 ASTM D 256 Relative Temp Index, Mech Wijnact (1) 10 2 ASTM D 266 Relative Temp Index, Mech Wijnact (1) 11 2 ASTM D 266 Water Absorption, (23°C/Saturated) 2 2 ASTM D 276 Water	Tensile Stress, brk, Type I, 5 mm/min	74	MPa	ASTM D 638
Flexural Modulus, 1.3 mm/min, 50 mm span 3990 MPa ASTM D 796 Hardness, Rockwell L 104 - 45 m 785 IMPACT V V ASTM D 256 Lood Impact, notched, 40°C 96 Jm ASTM D 256 THERMAL V Jm ASTM D 256 THERMAL V ASTM D 1525 HOT, 182 MPa, 6.4 mm, unanealed 147 °C ASTM D 1525 HOT, 182 MPa, 6.4 mm, unanealed 130 °C ASTM D 1526 Relative Temp Index, Mech yimpact (1) 105 °C U 7468 Relative Temp Index, Mech yimpact (1) 105 °C U 7468 Relative Temp Index, Mech yimpact (1) 105 °C U 17468 Relative Temp Index, Mech yimpact (1) 106 °C U 17468 Relative Temp Index, Mech yimpact (1) 105 °C ASTM D 50 Water Absorption, (23°C/24hrs) 20 30 ASTM D 50 Water Absorption, (23°C/24hrs) 20 30 ASTM D 50 Water Absorption, (23°C/24hrs) 20	Tensile Strain, brk, Type I, 5 mm/min	5	%	ASTM D 638
Hardness, Rockwell L 104 9 ASTM D 785 IMPACT 204 1/m ASTM D 256 Izod Impact, notched, 20°C 96 1/m ASTM D 256 Izodal mact, notched, 40°C 9 1/m ASTM D 256 I Expansion 1 2 ASTM D 1525 I HERNAU *** C ASTM D 1525 ASTM D 648 HOTI, 182 MPa, 64 mm, unannealed 13 0 C ASTM D 648 ASTM D 648 Relative Temp Index, Hele Mijorate (**) 10 2 0 U.7468 ASTM D 648 Relative Temp Index, Mech Mylmpact (**) 10 2 0 U.7468 ASTM D 648 Relative Temp Index, Mech Mylmpact (**) 10 2 0 0 0 12468 1248<	Flexural Stress, brk, 1.3 mm/min, 50 mm span	119	MPa	ASTM D 790
IMPACT Izod Impact, notched, 23°C 96 Jm ASTM D 256 Izod Impact, notched, 40°C 96 Jm ASTM D 256 THERMAL Vicat Softening Temp, Rate 8/50 147 C ASTM D 152 MBDT. 1.82 MPa, 6.4 mm, unanealed 147 ° C ASTM D 648 Relative Temp Index, Metch w/impact (1) 150 ° C U.7468 Relative Temp Index, Metch w/impact (1) 150 ° C U.7468 Relative Temp Index, Metch w/impact (1) 150 ° C U.7468 Relative Temp Index, Metch w/impact (1) 150 ° C U.7468 Relative Temp Index, Metch w/impact (1) 150 C U.7468 C Public Cardinal Metch w/impact (1) 150 C U.7468 C Public Cardinal Metch w/impact (1) 150 C D ASTM D 50 C C ASTM D 50 C C C ASTM D 50 C C C <td>Flexural Modulus, 1.3 mm/min, 50 mm span</td> <td>3990</td> <td>MPa</td> <td>ASTM D 790</td>	Flexural Modulus, 1.3 mm/min, 50 mm span	3990	MPa	ASTM D 790
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Izo d Impact, notched, 40°C5MD 256HERRMAVicat Softening Temp, Rate B/50147°CASTM D 1525HDT, 1.82 MPa, 6.4 mm, unannealed131°CASTM D 648Relative Temp Index, Elec (1)100°CU.7468Relative Temp Index, Mech w/impact (1)105°CU.7468Relative Temp Index, Mech w/impact (1)105°CU.7468Water Absorption (23°C/24hrs)1.66°CASTM D 792Water Absorption (23°C/24hrs)0.07%ASTM D 792Water Absorption (23°C/24hrs)0.22%ASTM D 570Water Absorption (23°C/24hrs)0.22%ASTM D 570Water Absorption (23°C/24hrs)1.64%ASTM D 570Water Absorption (23°C/24hrs)1.64%ASTM D 570Water Absorption (23°C/24hrs)0.07%ASTM D 570Water Absorption (23°C/24hrs)1.64%ASTM D 570Bellia Wolface Permittivity, 50/60 Hz3ASTM D 570ASTM D 570Relative Permittivity, 1 MHz34ASTM D 570Dissipation Factor, 50/60 Hz3 </td <td>IMPACT</td> <td></td> <td></td> <td></td>	IMPACT			
THERMAL Vicat Softening Temp, Rate B/50 147 °C ASTM D 1525 HDT, 1.82 MPa, 6.4 mm, unannealed 131 °C ASTM D 648 Relative Temp Index, Elec ⁽¹⁾ 100 °C U.746B Relative Temp Index, Mech w/impact ⁽¹⁾ 105 °C U.746B Relative Temp Index, Mech w/impact ⁽¹⁾ 100 °C U.746B Relative Temp Index, Mech w/impact ⁽¹⁾ 100 °C U.746B Relative Temp Index, Mech w/impact ⁽¹⁾ 10 °C U.746B Relative Temp Index, Mech w/impact ⁽¹⁾ 10 °C U.746B Relative Temp Index, Mech w/impact ⁽¹⁾ 10 °C ASTM D 79C Wester Absorption, (23°C/24hrs) 0.07 \$ ASTM D 79C Water Absorption, (23°C/24hrs) 0.22 % ASTM D 57C Water Absorption, (23°C/24hrs) 0.22 % ASTM D 57C Water Absorption, (23°C/24hrs) 1.815 % ASTM D 57C Water Absorption, (23°C/24hrs) 1.815 % Membed 5 Water Absorption, (23°	Izod Impact, notched, 23°C	96	J/m	ASTM D 256
Vicas Softening Temp, Rate B/50 147 °C ASM D 1525 HDT, 1.82 MPa, 6.4 mm, unannealed 131 °C ASM D 648 Relative Temp Index, Elec (¹) 10 °C U.746B Relative Temp Index, Mech w/ impact (¹) 10 °C U.746B Relative Temp Index, Mech w/ impact (¹) 10 °C U.746B Relative Temp Index, Mech w/ impact (¹) 10 °C U.746B Relative Temp Index, Mech w/ impact (¹) 10 °C U.746B Relative Temp Index, Mech w/ impact (¹) 10 °C U.746B PEUTIC (**) ************************************	Izod Impact, notched, -40°C	69	J/m	ASTM D 256
HDT, 1.82 MPa, 6.4 mm, unannealed 31 °C ASTM D 648 Relative Temp Index, Elec (¹) 110 °C U. 746B Relative Temp Index, Mech w/ Impact (¹) 105 °C U. 746B Relative Temp Index, Mech w/ Impact (¹) 110 °C U. 746B PHYSICA V U. 746B V Specific Gravity 1.6 < ASTM D 792 Water Absorption, (23°C/24hrs) 0.07 % ASTM D 570 Water Absorption, (23°C/25htrated) 0.22 % ASTM D 570 Mold Shrinkage, flow, 3.2 mm 0.3 − 0.5 % ASTM D 570 Belative Permittivity, 50/60 Hz 1.5+15 Ohm-cm ASTM D 150 Relative Permittivity, 1 MHz 3 Ohm-cm ASTM D 150 Dissipation Factor, 50/60 Hz 0.0017 ASTM D 150 Bisipation Factor, 1 MHz 0.0016 ASTM D 150 Dissipation Factor, 1 MHz 0.0016 ASTM D 150 Comparative Track Rate {PLC} 4 CCode U. 746A High Amp Arc Ig	THERMAL			
Relative Temp Index, Elec (¹¹) 10 °C U. 7468 Relative Temp Index, Mech w/impact (¹¹) 105 °C U. 7468 Relative Temp Index, Mech w/o impact (¹¹) 110 °C U. 7468 PHYSICAL FUNDER Gravity 1.16 ° ASTM D 792 Water Absorption, (23°C/24hrs) 0.07 % ASTM D 570 Water Absorption, (23°C/54urated) 0.22 % ASTM D 570 Mold Shrinkage, flow, 3.2 mm 0.3 – 0.5 % ASIM D 570 Volume Resistivity 1.£± 15 Ohm-cm ASTM D 257 Relative Permittivity, 50/60 Hz 3 Ohm-cm ASTM D 150 Relative Permittivity, 1 MHz 3 C ASTM D 150 Dissipation Factor, 50/60 Hz 0.0017 C ASTM D 150 Dissipation Factor, 1 MHz 0.0016 C ASTM D 150 High Voltage Arc Track Rate {PLC} 4 PLC Code U. 746A Comparative Tracking Index (UL) {PLC} ≥1.5 mm U. 746A High Amp Arc Ignition (HAI), PLC 2 <	Vicat Softening Temp, Rate B/50	147	°C	ASTM D 1525
Relative Temp Index, Mech w/impact (1)105°CU.746BRelative Temp Index, Mech w/o impact (1)100°CU.746BPMYSICALSpecific Gravity1.66.ASM D 792Water Absorption, (23°C/24hrs).007%ASM D 570Water Absorption, (23°C/Saturated).022%ASM D 570Mold Shrinkage, flow, 3.2 mm.03 - 0.5%More mediatorELECTRICIAMore mediatorASM D 257Relative Permittivity, 50/60 Hz1.54 1More mediatorASM D 150Belative Permittivity, 1 MHzASM D 150Dissipation Factor, 50/60 HzASM D 150Bisipation Factor, 1 MHzASM D 150Omparative Track Rate (PLC)ASM D 150Comparative Tracking Index (UL) (PLC)ASM D 150Bigh Amp Arc Ignition (HAI), PLC 2Bigh Amp Arc Ignition (HAI), PLC 2Bigh Wire Ignition (HMI), PLC 3Bigh Wire Ignition (HMI), PLC 3Bigh Amp Arc Ignition (HMI), PLC 3Bigh Amp Arc Ignition (HMI), PLC 3Bigh Amp Arc Ignition (HMI), PLC 3<	HDT, 1.82 MPa, 6.4 mm, unannealed	131	°C	ASTM D 648
Relative Temp Index, Mech w/o impact (¹)10°CU.7468PMYSICALFyecific Gravity1.662ASTM D 792Water Absorption, (23°C/24hrs)0.07\$ASTM D 570Water Absorption, (23°C/34hrs)0.22\$ASTM D 570Mold Shrinkage, flow, 3.2 mm0.3 - 0.5\$ASIM D 570ELECTRICALVOhm-cmASTM D 57Relative Permittivity, 50/60 Hz1.6+15Ohm-cmASTM D 57Relative Permittivity, 1 MHz3ASTM D 150Dissipation Factor, 50/60 Hz0.00172ASTM D 150Bispiation Factor, 1 MHz0.00161.0016PIC CodeU. 746AComparative Track Rate {PLC}2PIC CodeU. 746ABigh Amp Arc Ignition (HAI), PLC 11.5MemU. 746ABigh Amp Arc Ignition (HAI), PLC 21.5mmU. 746ABigh Amp Arc Ignition (HAI), PLC 31.5mmU. 746A	Relative Temp Index, Elec ⁽¹⁾	110	°C	UL 746B
PHYSICALSpecific Gravity1.66ASTM D 792Water Absorption, (23°C/24hrs)0.07%ASTM D 570Water Absorption, (23°C/Saturated)0.22%ASTM D 570Mold Shrinkage, flow, 3.2 mm0.3 – 0.5%SABIC methodELECTRICALVolume Resistivity1.E+15Ohn-cmASTM D 257Relative Permittivity, 50/60 Hz3Ohn-cmASTM D 150Relative Permittivity, 1 MHz3.00172.0017ASTM D 150Dissipation Factor, 50/60 Hz0.00172.0016ASTM D 150Bigh Voltage Arc Track Rate {PLC}4PLC OdeU.746AComparative Tracking Index (UL) {PLC}2PLC OdeU.746ABigh Amp Arc Ignition (HAI), PLC 121.5mmU.746ABigh Amp Arc Ignition (HAI), PLC 221.5mmU.746ABigh Amp Arc Ignition (HAI), PLC 221.5mmU.746A	Relative Temp Index, Mech w/impact (1)	105	°C	UL 746B
Specific Gravity1.16- O.7ASTM D 792Water Absorption, (23°C/24hrs)0.07\$ ASTM D 570Water Absorption, (23°C/Saturated)0.22\$ ASTM D 570Mold Shrinkage, flow, 3.2 mm0.3 - 0.5\$ ASTM D 570ELECTRICALVolume Resistivity1.E+15Ohm-cmASTM D 257Relative Permittivity, 50/60 Hz3ASTM D 150Relative Permittivity, 1 MHz3ASTM D 150Dissipation Factor, 50/60 Hz0.0017- ASTM D 150Dissipation Factor, 1 MHz0.0016- ASTM D 150High Voltage Arc Track Rate {PLC}4PLC CodeUL 746AComparative Tracking Index (UL) {PLC}2PLC CodeUL 746AHigh Amp Arc Ignition (HAI), PLC 11.5mmUL 746AHigh Amp Arc Ignition (HAI), PLC 21.5mmUL 746AHot-Wire Ignition (HMI), PLC 21.5mmUL 746A	Relative Temp Index, Mech w/o impact (1)	110	°C	UL 746B
Water Absorption, (23°C/24hrs) 0.07 % ASTM D 570 Water Absorption, (23°C/Saturated) 0.22 % ASTM D 570 Mold Shrinkage, flow, 3.2 mm 0.3 – 0.5 % SABIC method ELECTRICAL Volume Resistivity 1.E+15 Ohm-cm ASTM D 257 Relative Permittivity, 50/60 Hz 3 - ASTM D 150 Relative Permittivity, 1 MHz 3 - ASTM D 150 Dissipation Factor, 50/60 Hz 0.0017 - ASTM D 150 Dissipation Factor, 1 MHz 0.0016 - ASTM D 150 Us 746A - ASTM D 150 William Factor, 1 MHz - ASTM D 150 Comparative Track Rate (PLC) 2 PLC Code Ul 746A High	PHYSICAL			
Water Absorption, (23°C/Saturated) 0.22 % ASTM D 570 Mold Shrinkage, flow, 3.2 mm 0.3 − 0.5 % SABIC method ELECTRICAL Volume Resistivity 1.E+15 Ohm-cm ASTM D 257 Relative Permittivity, 50/60 Hz 3 - ASTM D 150 Relative Permittivity, 1 MHz 3 - ASTM D 150 Dissipation Factor, 50/60 Hz 0.0017 - ASTM D 150 Bigh Voltage Arc Track Rate {PLC} 4 PLC Code UL 746A Comparative Tracking Index (UL) {PLC} 2 PLC Code UL 746A High Amp Arc Ignition (HAI), PLC 2 ≥1.5 mm UL 746A High Amp Arc Ignition (HWI), PLC 0 ≥1.5 mm UL 746A	Specific Gravity	1.16	-	ASTM D 792
Mold Shrinkage, flow, 3.2 mm 0.3 – 0.5	Water Absorption, (23°C/24hrs)	0.07	%	ASTM D 570
ELECTRICALVolume Resistivity1.E+15Ohm-cmASTM D 257Relative Permittivity, 50/60 Hz3-ASTM D 150Relative Permittivity, 1 MHz3-ASTM D 150Dissipation Factor, 50/60 Hz0.0017-ASTM D 150Dissipation Factor, 1 MHz0.0016-ASTM D 150High Voltage Arc Track Rate {PLC}4PLC CodeUL 746AComparative Tracking Index (UL) {PLC}2PLC CodeUL 746AHigh Amp Arc Ignition (HAI), PLC 1>1.5mmUL 746AHigh Amp Arc Ignition (HAI), PLC 2>1.5mmUL 746AHot-Wire Ignition (HWI), PLC 0>1.5mmUL 746A	Water Absorption, (23°C/Saturated)	0.22	%	ASTM D 570
Volume Resistivity1.E+15Ohm-cmASTM D 257Relative Permittivity, 50/60 Hz3-ASTM D 150Relative Permittivity, 1 MHz3-ASTM D 150Dissipation Factor, 50/60 Hz0.0017-ASTM D 150Dissipation Factor, 1 MHz0.0016-ASTM D 150High Voltage Arc Track Rate {PLC}4PLC CodeUL 746AComparative Tracking Index (UL) {PLC}2PLC CodeUL 746AHigh Amp Arc Ignition (HAI), PLC 1≥1.5mmUL 746AHigh Amp Arc Ignition (HAI), PLC 2≥1.5mmUL 746AHot-Wire Ignition (HWI), PLC 0≥1.5mmUL 746A	Mold Shrinkage, flow, 3.2 mm	0.3 – 0.5	%	SABIC method
Relative Permittivity, 50/60 Hz 3 - ASTM D 150 Relative Permittivity, 1 MHz 3 - ASTM D 150 Dissipation Factor, 50/60 Hz 0.0017 - ASTM D 150 Dissipation Factor, 1 MHz 0.0016 - ASTM D 150 High Voltage Arc Track Rate {PLC} 4 PLC Code UL 746A Comparative Tracking Index (UL) {PLC} 2 PLC Code UL 746A High Amp Arc Ignition (HAI), PLC 1 ≥1.5 mm UL 746A High Amp Arc Ignition (HAI), PLC 2 ≥1.5 mm UL 746A Hot-Wire Ignition (HWI), PLC 0 ≥1.5 mm UL 746A	ELECTRICAL			
Relative Permittivity, 1 MHz 3 - ASTM D 150 Dissipation Factor, 50/60 Hz 0.0017 - ASTM D 150 Dissipation Factor, 1 MHz 0.0016 - ASTM D 150 High Voltage Arc Track Rate {PLC} 4 PLC Code UL 746A Comparative Tracking Index (UL) {PLC} 2 PLC Code UL 746A High Amp Arc Ignition (HAI), PLC 1 ≥1.5 mm UL 746A High Amp Arc Ignition (HAI), PLC 2 ≥1.5 mm UL 746A Hot-Wire Ignition (HWI), PLC 0 ≥1.5 mm UL 746A	Volume Resistivity	1.E+15	Ohm-cm	ASTM D 257
Dissipation Factor, 50/60 Hz 0.0017 - ASTM D 150 Dissipation Factor, 1 MHz 0.0016 - Code ASTM D 150 High Voltage Arc Track Rate {PLC} 4 PLC Code UL 746A Comparative Tracking Index (UL) {PLC} 2 PLC Code UL 746A High Amp Arc Ignition (HAI), PLC 1 ≥1.5 mm UL 746A High Amp Arc Ignition (HAI), PLC 2 ≥1.5 mm UL 746A Hot-Wire Ignition (HWI), PLC 0 ≥1.5 mm UL 746A	Relative Permittivity, 50/60 Hz	3	-	ASTM D 150
Dissipation Factor, 1 MHz 0.0016 - ASTM D 150 High Voltage Arc Track Rate {PLC} 4 PLC Code UL 746A Comparative Tracking Index (UL) {PLC} 2 PLC Code UL 746A High Amp Arc Ignition (HAI), PLC 1 ≥1.5 mm UL 746A Hot-Wire Ignition (HWI), PLC 0 ≥1.5 mm UL 746A	Relative Permittivity, 1 MHz	3	-	ASTM D 150
High Voltage Arc Track Rate {PLC} 4 PLC Code UL 746A Comparative Tracking Index (UL) {PLC} 2 PLC Code UL 746A High Amp Arc Ignition (HAI), PLC 1 ≥1.5 mm UL 746A High Amp Arc Ignition (HAI), PLC 2 ≥1.5 mm UL 746A Hot-Wire Ignition (HWI), PLC 0 ≥1.5 mm UL 746A	Dissipation Factor, 50/60 Hz	0.0017	-	ASTM D 150
Comparative Tracking Index (UL) {PLC} 2 PLC Code UL 746A High Amp Arc Ignition (HAI), PLC 1 ≥1.5 mm UL 746A High Amp Arc Ignition (HAI), PLC 2 ≥1.5 mm UL 746A Hot-Wire Ignition (HWI), PLC 0 ≥1.5 mm UL 746A	Dissipation Factor, 1 MHz	0.0016	-	ASTM D 150
High Amp Arc Ignition (HAI), PLC 1 ≥1.5 mm UL 746A High Amp Arc Ignition (HAI), PLC 2 ≥1.5 mm UL 746A Hot-Wire Ignition (HWI), PLC 0 ≥1.5 mm UL 746A	High Voltage Arc Track Rate {PLC}	4	PLC Code	UL 746A
High Amp Arc Ignition (HAI), PLC 2 ≥1.5 mm UL 746A Hot-Wire Ignition (HWI), PLC 0 ≥1.5 mm UL 746A	Comparative Tracking Index (UL) {PLC}	2	PLC Code	UL 746A
Hot-Wire Ignition (HWI), PLC 0 ≥1.5 mm UL 746A	High Amp Arc Ignition (HAI), PLC 1	≥1.5	mm	UL 746A
- , ,	High Amp Arc Ignition (HAI), PLC 2	≥1.5	mm	UL 746A
Hot-Wire Ignition (HWI), PLC 1 ≥1.5 mm UL 746A	Hot-Wire Ignition (HWI), PLC 0	≥1.5	mm	UL 746A
	Hot-Wire Ignition (HWI), PLC 1	≥1.5	mm	UL 746A



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E121562-221214	-	-
UL Yellow Card Link 2	E121562-100072184	-	-
UL Recognized, 94V-1 Flame Class Rating	≥1.5	mm	UL 94
UV-light, water exposure/immersion	F1	-	UL 746C
Oxygen Index (LOI)	33.9	%	ASTM D 2863
INJECTION MOLDING			
Drying Temperature	105 – 110	°C	
Drying Time	3 – 4	hrs	
Drying Time (Cumulative)	8	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	280 – 310	°C	
Nozzle Temperature	280 – 310	°C	
Front - Zone 3 Temperature	270 – 310	°C	
Middle - Zone 2 Temperature	260 – 305	°C	
Rear - Zone 1 Temperature	250 – 300	°C	
Mold Temperature	75 – 105	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	20 – 100	rpm	
Shot to Cylinder Size	30 – 70	%	

⁽¹⁾ 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.

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