

## **UL Certification**

starex <sup>e</sup>	Grade	GR-4030	
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iq.ul.com							
Component - Plastics [g	juide info]						E115797
Lotte Advanced M 56 Gosan-ro, Uiwang-si	laterials Co Ltd Gyeonggi-do 437-711 KR						520500
GR-4030(+)							
, ,	e Styrene (ABS), glass re	einforced, "STAREX", furnis	shed as pelle	ts			
	Min Thk	Flame			RTI	RTI	RTI
Color	(mm)	Class	HWI	HAI	Elec	Imp	Str
ALL	1.5	HB	1	0	60	60	60
7122	3.0	HB	0	0	60	60	60
	6.0	HB	1	0	60	60	60
Compa	rative Tracking Index (CT				ne Tracking (IPT):		00
	Dielectric Strength (kV/mr				vity (10 <sup>x</sup> ohm-cm):		
			Lligh \		Arc Resis (D495):		
nigh-voltage	Arc Tracking Rate (HVTF		might v	oit, Low Current	AIC RESIS (D495).	0	
		4)· 0.7					
(+) May be repla	Dimensional Stability (9						
	aced by one, two, or three nu	umbers and/or letter(s)	olated contents	ANGULU O4 small soa	lo tost data is intended	colohy for de	stermining the
ANSI/UL 94 small-scale	aced by one, two, or three nu e test data does not pertain to bu						
ANSI/UL 94 small-scale flammability of plasti	aced by one, two, or three nu e test data does not pertain to bu ic materials used in the compone	umbers and/or letter(s) uilding materials, furnishings and re				n is determi	ned by UL.
ANSI/UL 94 small-scale flammability of plast Report Date: 1991-07-1	aced by one, two, or three nu e test data does not pertain to bu ic materials used in the compone 6	umbers and/or letter(s) uilding materials, furnishings and re	ces and appliant	es, where the accepta		n is determi	ned by UL.
ANSI/UL 94 small-scale flammability of plasti	aced by one, two, or three nu e test data does not pertain to bu ic materials used in the compone 6	umbers and/or letter(s) uilding materials, furnishings and re		es, where the accepta		n is determi	
ANSI/UL 94 small-scale flammability of plast Report Date: 1991-07-1 Last Revised: 2014-07-	aced by one, two, or three nu e test data does not pertain to bu ic materials used in the compone 6 11	umbers and/or letter(s) uilding materials, furnishings and re	ces and appliant	es, where the accepta		n is determi	ned by UL.
ANSI/UL 94 small-scale flammability of plast Report Date: 1991-07-1 Last Revised: 2014-07-	aced by one, two, or three nu e test data does not pertain to bu ic materials used in the compone 6 11	mibers and/or letter(s) uilding materials, furnishings and re ents and parts of end-product devi	ces and appliant	es, where the accepta	bility of the combination	n is determi	s SUS US
ANSI/UL 94 small-scale flammability of plast Report Date: 1991-07-1 Last Revised: 2014-07-	aced by one, two, or three nu e test data does not pertain to bu ic materials used in the compone 6 11	umbers and/or letter(s) uilding materials, furnishings and re	ces and appliant	ces, where the acceptance.C Units		n is determi	red by UĽ.  SUSUS  Value
ANSI/UL 94 small-scale flammability of plast Report Date: 1991-07-1 Last Revised: 2014-07-	aced by one, two, or three nu e test data does not pertain to bu ic materials used in the compone 6 11	mibers and/or letter(s) uilding materials, furnishings and related and parts of end-product devi	ces and appliant	es, where the accepta	bility of the combination	n is determi	s SUS US
ANSI/UL 94 small-scale flammability of plast Report Date: 1991-07-1 Last Revised: 2014-07-	aced by one, two, or three nu e test data does not pertain to bu ic materials used in the compone 6 11	mibers and/or letter(s) uilding materials, furnishings and related and parts of end-product devi	ces and appliant	ces, where the acceptance.C Units	bility of the combination  Thk (mm)  1.5	n is determi	Value JB75 (ALL)
ANSI/UL 94 small-scale flammability of plast Report Date: 1991-07-1 Last Revised: 2014-07-	aced by one, two, or three nu e test data does not pertain to bu ic materials used in the compone 6 11	mibers and/or letter(s) uilding materials, furnishings and related and parts of end-product devi	ces and appliant	ces, where the acceptance.C Units	Thk (mm) 1.5 3.0	n is determi	Value IB75 (ALL) IB40 (ALL)
ANSI/UL 94 small-scale flammability of plast Report Date: 1991-07-1 Last Revised: 2014-07- IEC and ISO Test Me Test Name Flammability	acced by one, two, or three nu e test data does not pertain to bu ic materials used in the compone 6 11 ethods (GWFI)	unibers and/or letter(s) uilding materials, furnishings and n ents and parts of end-product devi  Test Method IEC 60695-11-10	ces and appliant	.C  Units Class (color)	Thk (mm) 1.5 3.0	n is determi	Value IB75 (ALL) IB40 (ALL)
ANSI/UL 94 small-scale flammability of plastic flammability of plastic Report Date: 1991-07-1 Last Revised: 2014-07-1 IEC and ISO Test Me Test Name Flammability  Glow-Wire Flammability	acced by one, two, or three nu e test data does not pertain to be ic materials used in the compone 6 11 ethods  (GWFI)	umbers and/or letter(s) uilding materials, furnishings and n ents and parts of end-product devi  Test Method IEC 60695-2-12	ces and appliant	.C  Units Class (color)	Thk (mm) 1.5 3.0	n is determi	Value IB75 (ALL) IB40 (ALL)
ANSI/UL 94 small-scale flammability of plast Report Date: 1991-07-1 Last Revised: 2014-07-1 Lest Name Flammability  Glow-Wire Flammability Glow-Wire Ignition (GW)	acced by one, two, or three nu e test data does not pertain to be ic materials used in the compone 6 11 ethods  (GWFI)	umbers and/or letter(s) uilding materials, furnishings and nents and parts of end-product devi  Test Method IEC 60695-11-10  IEC 60695-2-12 IEC 60695-2-13	ces and appliant	Units Class (color)  C	Thk (mm) 1.5 3.0	n is determi	Value IB75 (ALL) IB40 (ALL)
ANSI/UL 94 small-scale flammability of plast Report Date: 1991-07-1 Last Revised: 2014-07-1 IEC and ISO Test Met Test Name Flammability  Glow-Wire Flammability Glow-Wire Ignition (GWIEC Comparative Tracki	ethods  (GWFI)  Into graph of the component of the compon	umbers and/or letter(s) uilding materials, furnishings and nents and parts of end-product devi  Test Method IEC 60695-11-10  IEC 60695-2-12 IEC 60695-2-13 IEC 60112	ces and appliant	Units Class (color)  C C Volts (Max)	Thk (mm) 1.5 3.0	n is determi	Value IB75 (ALL) IB40 (ALL)
ANSI/UL 94 small-scale flammability of plast Report Date: 1991-07-1 Last Revised: 2014-07-1 Last Revis	ethods  (GWFI)  Into graph of the component of the compon	Test Method IEC 60695-2-12 IEC 60695-2-13 IEC 60695-10-2	ces and appliant	Units Class (color)  C C Volts (Max) C	Thk (mm) 1.5 3.0	n is determi	Value IB75 (ALL) IB40 (ALL)
ANSI/UL 94 small-scale flammability of plast Report Date: 1991-07-1 Last Revised: 2014-07-1 Last Revis	ethods  (GWFI)  Into graph of the component of the compon	Test Method IEC 60695-2-12 IEC 60695-2-13 IEC 6012 IEC 60695-10-2 ISO 75-2	ces and appliant	Units Class (color)  C C Volts (Max) C C	Thk (mm) 1.5 3.0	n is determi	Value IB75 (ALL) IB40 (ALL)
ANSI/UL 94 small-scale flammability of plasts Report Date: 1991-07-1 Last Revised: 2014-07-2 IEC and ISO Test Met Test Name Flammability Glow-Wire Flammability Glow-Wire Ignition (GW IEC Comparative Tracki IEC Ball Pressure ISO Heat Deflection (1.8 ISO Tensile Strength	ethods  (GWFI)  Into graph of the component of the compon	Test Method IEC 60695-2-12 IEC 60695-2-13 IEC 60112 IEC 60695-10-2 ISO 75-2 ISO 527-2	ces and appliant	Units Class (color)  C C Volts (Max) C C MPa	Thk (mm) 1.5 3.0	n is determi	Value IB75 (ALL) IB40 (ALL)
ANSI/UL 94 small-scale flammability of plasts Report Date: 1991-07-1 Last Revised: 2014-07-2 IEC and ISO Test Met Test Name Flammability Glow-Wire Flammability Glow-Wire Ignition (GW IEC Comparative Tracki IEC Ball Pressure ISO Heat Deflection (1.8 ISO Tensile Strength ISO Flexural Strength	ethods  (GWFI)  Into graph of the component of the compon	Test Method IEC 60695-2-12 IEC 60695-2-13 IEC 60112 IEC 60695-10-2 ISO 75-2 ISO 178	ces and appliant	Units Class (color)  C C Volts (Max) C C MPa MPa	Thk (mm) 1.5 3.0	n is determi	Value IB75 (ALL) IB40 (ALL)