

## **UL Certification**

starex <sup>*</sup>	Grade	GR-4010	
---------------------	-------	---------	--

iq.ul.com						
Component - Plastics [gui	de info]					E115797
Lotte Advanced Ma	terials Co Ltd					
56 Gosan-ro, Uiwang-si G	yeonggi-do 437-711 KR					
GR-4010(+)						
	Styrene (ABS), glass re	einforced, "STAREX", furnis	shed as pelle	ets		
	Min Thk	Flame			RTI	RTI RTI
Color	(mm)	Class	HWI	HAI		Imp Str
ALL	1.5	HB	4	0	60	60 60
7,22	3.0	HB	0	0	60	60 60
	6.0	HB	2	0	60	60 60
Compara	tive Tracking Index (CT	T): 0	_	Inclined Plan	ne Tracking (IPT): -	
	electric Strength (kV/mn				rity (10 <sup>x</sup> ohm-cm):	
	rc Tracking Rate (HVTF		∐iah \		Arc Resis (D495):	
	Dimensional Stability (9		rigii (	Oit, Low Current	AIC Resis (D483).	,
The second second						
(+) - May be replace	ed by one, two, or three nu	umbers and/or letter(s)		ANCHILL Of small see	- 44 -4-4 :- :-4 4-4	-1-1-5
(+) - May be replace ANSI/UL 94 small-scale to	ed by one, two, or three nu					
(+) - May be replace ANSI/UL 94 small-scale to flammability of plastic	ed by one, two, or three nu	umbers and/or letter(s) uilding materials, furnishings and re				is determined by UL.
(+) - May be replace ANSI/UL 94 small-scale to flammability of plastic to	ed by one, two, or three nu est data does not pertain to bu materials used in the compone	umbers and/or letter(s) uilding materials, furnishings and re	ices and applian	ces, where the accepta		is determined by UL.
(+) - May be replace ANSI/UL 94 small-scale to flammability of plastic	ed by one, two, or three nu est data does not pertain to bu materials used in the compone	umbers and/or letter(s) uilding materials, furnishings and re		ces, where the accepta		
(+) - May be replace ANSI/UL 94 small-scale to flammability of plastic to	ed by one, two, or three nu est data does not pertain to bu materials used in the compone	umbers and/or letter(s) uilding materials, furnishings and re	ices and applian	ces, where the accepta		is determined by UL.
(+) - May be replace ANSI/UL 94 small-scale to flammability of plastic i Report Date: 1991-07-16 Last Revised: 2014-07-11	ed by one, two, or three nu est data does not pertain to bu materials used in the compone	umbers and/or letter(s) uilding materials, furnishings and re	ices and applian	ces, where the accepta		is determined by UL.
(+) - May be replace ANSI/UL 94 small-scale to flammability of plastic i Report Date: 1991-07-16 Last Revised: 2014-07-11 IEC and ISO Test Meti	ed by one, two, or three nu est data does not pertain to bu materials used in the compone	, mibbers and/or letter(s) uilding materials, furnishings and rents and parts of end-product devi	ices and applian	ces, where the accepta	bility of the combination	is determined by U.L.
(+) - May be replace ANSI/UL 94 small-scale to flammability of plastic i Report Date: 1991-07-16 Last Revised: 2014-07-11 IEC and ISO Test Meti Test Name	ed by one, two, or three nu est data does not pertain to bu materials used in the compone	mibers and/or letter(s) uilding materials, furnishings and related and parts of end-product devi	ices and applian	ces, where the accepta C Units	bility of the combination  Thk (mm)	is determined by UL.  C SUU U  Value
(+) - May be replace ANSI/UL 94 small-scale to flammability of plastic i Report Date: 1991-07-16 Last Revised: 2014-07-11 IEC and ISO Test Meti Test Name	ed by one, two, or three nu est data does not pertain to bu materials used in the compone	mibers and/or letter(s) uilding materials, furnishings and related and parts of end-product devi	ices and applian	ces, where the accepta C Units	Thk (mm)	Value HB75 (ALL)
(+) - May be replace ANSI/UL 94 small-scale to flammability of plastic i Report Date: 1991-07-16 Last Revised: 2014-07-11 IEC and ISO Test Meti Test Name	ed by one, two, or three nu est data does not pertain to be materials used in the component hods	mibers and/or letter(s) uilding materials, furnishings and related and parts of end-product devi	ices and applian	ces, where the accepta C Units	Thk (mm) 1.5 3.0	Value HB75 (ALL) HB40 (ALL)
(+) - May be replace ANSI/UL 94 small-scale to flammability of plastic in Report Date: 1991-07-16 Last Revised: 2014-07-11 IEC and ISO Test Metal Test Name Flammability Glow-Wire Flammability (Ciling Glow-Wire Ignition (GWIT))	ed by one, two, or three nu est data does not pertain to bu materials used in the component hods	mibers and/or letter(s) uilding materials, furnishings and results and parts of end-product devi  Test Method  IEC 60695-11-10	ices and applian	.C  Units Class (color)	Thk (mm) 1.5 3.0	Value HB75 (ALL) HB40 (ALL)
(+) - May be replace ANSI/UL 94 small-scale to flammability of plastic in the place of the place	ed by one, two, or three nu est data does not pertain to bu materials used in the component hods	mbers 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	ices and applian	Units Class (color)  C C Volts (Max)	Thk (mm) 1.5 3.0	Value HB75 (ALL) HB40 (ALL)
(+) - May be replace ANSI/UL 94 small-scale to flammability of plastic in the place of the place	ed by one, two, or three nu est data does not pertain to bu materials used in the component hods	mbers 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 IEC 60695-10-2	ices and applian	Units Class (color)  C C Volts (Max) C	Thk (mm) 1.5 3.0	Value HB75 (ALL) HB40 (ALL)
(+) - May be replace ANSI/UL 94 small-scale to flammability of plastic in the place of the place	ed by one, two, or three nu est data does not pertain to bu materials used in the component hods	mbers 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 IEC 60695-10-2 ISO 75-2	ices and applian	Units Class (color)  C C Volts (Max) C C	Thk (mm) 1.5 3.0	Value HB75 (ALL) HB40 (ALL)
(+) - May be replace ANSI/UL 94 small-scale to flammability of plastic in the place of the place	ed by one, two, or three nu est data does not pertain to bu materials used in the component hods	mbers 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 IEC 60695-10-2 ISO 75-2 ISO 527-2	ices and applian	Units Class (color)  C C Volts (Max) C MPa	Thk (mm) 1.5 3.0	Value HB75 (ALL) HB40 (ALL)
(+) - May be replace ANSI/UL 94 small-scale to flammability of plastic I Report Date: 1991-07-16 Last Revised: 2014-07-11  IEC and ISO Test Metal Test Name Flammability  Glow-Wire Flammability (Clow-Wire Ignition (GWIT) IEC Comparative Tracking IEC Ball Pressure ISO Heat Deflection (1.80 ISO Tensile Strength ISO Flexural Strength	ed by one, two, or three nu est data does not pertain to bu materials used in the component hods	mbers 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 IEC 60695-10-2 ISO 75-2 ISO 527-2 ISO 178	ices and applian	Units Class (color)  C C Volts (Max) C C MPa MPa	Thk (mm) 1.5 3.0	Value HB75 (ALL) HB40 (ALL)
(+) - May be replace ANSI/UL 94 small-scale to flammability of plastic I Report Date: 1991-07-16 Last Revised: 2014-07-11  IEC and ISO Test Metal Test Name Flammability  Glow-Wire Flammability (Clow-Wire Ignition (GWIT) IEC Comparative Tracking IEC Ball Pressure ISO Heat Deflection (1.80 ISO Tensile Strength ISO Flexural Strength ISO Tensile Impact	ed by one, two, or three nu est data does not pertain to bu materials used in the component hods	Test Method IEC 60695-2-12 IEC 60695-2-13 IEC 60695-11-10 IEC 60695-11-2 IEC 60695-11-2 IEC 60695-17-2 IEC 6069	ices and applian	Units Class (color)  C C Volts (Max) C C MPa MPa kJ/m²	Thk (mm) 1.5 3.0	Value HB75 (ALL) HB40 (ALL)
(+) - May be replace ANSI/UL 94 small-scale to flammability of plastic in Report Date: 1991-07-16 Last Revised: 2014-07-11  IEC and ISO Test Method Test Name Flammability  Glow-Wire Flammability (Coglow-Wire Ignition (GWIT) IEC Comparative Tracking IEC Ball Pressure ISO Heat Deflection (1.80 ISO Tensile Strength ISO Flexural Strength	ed by one, two, or three nu est data does not pertain to bu materials used in the component hods	mbers 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 IEC 60695-10-2 ISO 75-2 ISO 527-2 ISO 178	ices and applian	Units Class (color)  C C Volts (Max) C C MPa MPa	Thk (mm) 1.5 3.0	Value HB75 (ALL) HB40 (ALL)