

Technical Data				
Product Description				
Sicoflex ABS MZ341	ABS, general purpose medium flow			
LG ABS ER461	Description Heat Resistance, High Impact			
	Application Automotives Interior & Exterior Housing (Garnsih etc)			
TAIRILAC® AG12AJ	Jet Black General Grade			
TAIRILAC® AG12A0	CHARACTERISTICS: Jet black, High impact			
	General Purpose Grade			
	CHARACTERISTICS: High impact			
General	Sicoflex ABS MZ341	LG ABS ER461	TAIRILAC® AG12AJ	TAIRILAC® AG12A0
Manufacturer / Supplier	Ravago Group	LG Chem Ltd.	Formosa Chemicals & Fibre Corporation	Formosa Chemicals & Fibre Corporation
Generic Symbol	ABS	ABS	ABS	ABS
Material Status	已商用：当前有效	已商用：当前有效	已商用：当前有效	已商用：当前有效
资料 ¹	--	- Technical Datasheet - ASTM (English) - Technical Datasheet - ISO (English)	- Processing (English) - Technical Datasheet (English)	- Processing (English) - Technical Datasheet (English)
UL 黄卡 ²	--	E67171-248359	E162823-610926	E162823-224713
搜索 UL 黄卡	- Ravago Group - Sicoflex	- LG Chem Ltd. - LG ABS	- Formosa Chemicals & Fibre Corporation - TAIRILAC®	- Formosa Chemicals & Fibre Corporation - TAIRILAC®
Availability	欧洲	- 北美洲 - 拉丁美洲 - 欧洲 - 亚太地区	- 北美洲 - 欧洲 - 亚太地区	- 北美洲 - 欧洲 - 亚太地区
Recycled Content	是	--	--	--
Features	- 流动性中等 - 通用	- Good Heat Resistance - 抗撞击性，高	- 抗撞击性，高 - 通用	- 抗撞击性，高 - 通用
Uses	通用	- 汽车内部零件 - 汽车外部零件 - 外壳	--	--

General	Sicoflex ABS MZ341	LG ABS ER461	TAIRILAC® AG12AJ	TAIRILAC® AG12A0		
Agency Ratings	--	--	• EC 1907/2006 (REACH)	• EC 1907/2006 (REACH)		
RoHS Compliance	--	--	• RoHS 合规	• RoHS 合规		
Automotive Specifications	--	• HYUNDAI MS225-18 T6	--	--		
UL File Number	--	--	• E162823	• E162823		
Appearance	--	--	• 黑色	--		
Processing Method	--	• 注射成型	• 注射成型	• 注射成型		

Physical	Sicoflex ABS MZ341	LG ABS ER461	TAIRILAC® AG12AJ	TAIRILAC® AG12A0	单位制	测试方法
Density / Specific Gravity						
--	--	1.05	1.05	1.04	g/cm³	ASTM D792
--	1.05	1.05	--	--	g/cm³	ISO 1183
23°C	--	--	1.05	1.04	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)						
200°C/5.0 kg	--	--	1.9	1.6	g/10 min	ASTM D1238 ISO 1133
220°C/10.0 kg	--	14	19	16	g/10 min	ASTM D1238
220°C/10.0 kg	16	--	19	16	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	--	14.0	--	--	cm³/10min	ISO 1133
Molding Shrinkage						
流动 : 3.20 mm	--	0.40 到 0.70	--	--	%	ASTM D955
--	0.40 到 0.70	--	--	--	%	ISO 2577
流量 : 3.20 mm	--	0.40 到 0.70	--	--	%	ISO 294-4

Mechanical	Sicoflex ABS MZ341	LG ABS ER461	TAIRILAC® AG12AJ	TAIRILAC® AG12A0	单位制	测试方法
Tensile Modulus	--	2300	--	--	MPa	ISO 527-2/1
Tensile Strength						
屈服, 3.20 mm ⁴	--	49.0	--	--	MPa	ASTM D638
屈服	40.0	--	--	--	MPa	ISO 527-2
屈服	--	49.0	--	--	MPa	ISO 527-2/50
断裂	32.0	--	--	--	MPa	ISO 527-2
23°C	--	--	42.0	45.0	MPa	ASTM D638 ISO 527-2
Tensile Elongation						
断裂, 3.20 mm ⁴	--	25	--	--	%	ASTM D638
断裂	25	--	--	--	%	ISO 527-2

Mechanical	Sicoflex ABS MZ341	LG ABS ER461	TAIRILAC® AG12AJ	TAIRILAC® AG12A0	单位制	测试方法
Flexural Modulus						
3.20 mm ⁵	--	2550	--	--	MPa	ASTM D790
23°C	--	--	2550	2450	MPa	ASTM D790 ISO 178
--	2600	--	--	--	MPa	ISO 178
-- ⁶	--	2350	--	--	MPa	ISO 178
Flexural Strength						
3.20 mm ⁵	--	78.5	--	--	MPa	ASTM D790
23°C	--	--	74.0	74.0	MPa	ASTM D790 ISO 178
-- ⁶	--	73.0	--	--	MPa	ISO 178
Impact	Sicoflex ABS MZ341	LG ABS ER461	TAIRILAC® AG12AJ	TAIRILAC® AG12A0	单位制	测试方法
Charpy Notched Impact Strength						ISO 179/1eA
-30°C	--	9.0	--	--	kJ/m²	
23°C	--	25	--	--	kJ/m²	
Notched Izod Impact						
-30°C, 3.20 mm	--	98	--	--	J/m	ASTM D256
-30°C, 6.40 mm	--	98	--	--	J/m	ASTM D256
23°C, 3.20 mm	--	290	--	--	J/m	ASTM D256
23°C, 6.35 mm	--	--	250	290	J/m	ASTM D256 ISO 180
23°C, 6.40 mm	--	270	--	--	J/m	ASTM D256
-30°C	5.0	8.0	--	--	kJ/m²	ISO 180/1A
23°C	11	23	--	--	kJ/m²	ISO 180/1A
Hardness	Sicoflex ABS MZ341	LG ABS ER461	TAIRILAC® AG12AJ	TAIRILAC® AG12A0	单位制	测试方法
Rockwell Hardness						
R 级	--	110	--	--		ASTM D785
R 级, 23°C	--	--	106	105		ASTM D785
--	--	112	--	--		ISO 2039-2
R 计秤, 23°C	--	--	106	105		ISO 2039-2



Thermal	Sicoflex ABS MZ341	LG ABS ER461	TAIRILAC® AG12AJ	TAIRILAC® AG12A0	单位制	测试方法
Deflection Temperature Under Load						
0.45 MPa, 未退火, 6.40 mm	--	100	--	--	°C	ASTM D648
0.45 MPa, 未退火, 4.00 mm ⁷	--	92.0	--	--	°C	ISO 75-2/Be
1.8 MPa, 未退火, 6.40 mm	--	93.0	--	--	°C	ASTM D648
1.8 MPa, 未退火, 12.7 mm	--	--	86.0	85.0	°C	ASTM D648 ISO 75-2/A
1.8 MPa, 未退火, 4.00 mm ⁷	--	85.0	--	--	°C	ISO 75-2/Ae
1.8 MPa, 退火 ⁸	--	--	96.0	95.0	°C	ASTM D648 ISO 75-2/A
1.8 MPa, 退火	91.0	--	--	--	°C	ISO 75-2/A
Vicat Softening Temperature						
--	--	--	101	102	°C	ASTM D1525 ⁹ ISO 306/A ⁹
--	--	100	--	--	°C	ASTM D1525 ¹⁰
--	100	--	--	--	°C	ISO 306/A50
--	93.0	101	--	--	°C	ISO 306/B50
CLTE						ISO 11359-2
流动 : 23 到 60°C	--	8.0E-5 到 9.0E-5	--	--	cm/cm/°C	
横向 : 23 到 60°C	--	8.0E-5 到 9.0E-5	--	--	cm/cm/°C	
RTI Elec	--	60.0	--	--	°C	UL 746
RTI Imp	--	60.0	--	--	°C	UL 746
RTI Str	--	60.0	--	--	°C	UL 746
Electrical	Sicoflex ABS MZ341	LG ABS ER461	TAIRILAC® AG12AJ	TAIRILAC® AG12A0	单位制	测试方法
Volume Resistivity (23°C)	--	1.4E+3	--	--	ohms-cm	ASTM D257
Dielectric Strength (23°C, 1.00 mm)	--	30	--	--	kV/mm	ASTM D149
Arc Resistance	--	PLC 6	--	--		ASTM D495
Flammability	Sicoflex ABS MZ341	LG ABS ER461	TAIRILAC® AG12AJ	TAIRILAC® AG12A0	单位制	测试方法
Flame Rating						
--	--	HB	--	--		UL 94
1.5 mm, All Colors	--	--	--	HB		UL 94
1.5 mm, Black	--	--	HB	--		UL 94
1.6 mm ¹¹	HB	--	--	--		Internal Method
3.2 mm ¹¹	HB	--	--	--		Internal Method
Glow Wire Flammability Index (2.0 mm)	650	--	--	--	°C	IEC 60695-2-12



Injection	Sicoflex ABS MZ341	LG ABS ER461	TAIRILAC® AG12AJ	TAIRILAC® AG12A0	单位制
Drying Temperature	--	80 到 90	70 到 80	70 到 80	°C
Drying Time	--	3.0 到 4.0	2.0 到 3.0	2.0 到 3.0	hr
Suggested Max Moisture	--	0.050	--	--	%
Rear Temperature	--	180 到 210	--	--	°C
Middle Temperature	--	210 到 230	--	--	°C
Front Temperature	--	230 到 240	--	--	°C
Nozzle Temperature	--	230 到 240	--	--	°C
Processing (Melt) Temp	--	230 到 260	190 到 230	190 到 230	°C
Mold Temperature	--	40 到 60	40 到 80	40 到 80	°C
Injection Pressure	--	--	68.6 到 108	68.6 到 108	MPa
Back Pressure	--	0.981 到 2.94	--	--	MPa

备注

- ¹ 通过这些链接您能够访问供应商资料。我们尽量保证及时更新资料；不过您可以从供应商处了解最新资料。
- ² UL 黄卡含有 UL 验证的易燃性和电气特性。UL Prospector 持续努力在 Prospector 中将黄卡链接至单个塑料材料，然而此列表可能未包括所有相应链接。重要的是，我们对 Prospector 中找到的这些黄卡和塑料材料之间的关联进行验证。如需完整的黄卡列表，请访问 UL 黄卡搜索。
- ³ 一般属性：这些不能被视为规格。
- ⁴ 50 mm/min
- ⁵ 15 mm/min
- ⁶ 2.0 mm/min
- ⁷ 120*10*4mm
- ⁸ 80°C/8hr
- ⁹ 压 力 1 (10N)
- ¹⁰ 速率 A (50°C/h), 载荷 2 (50N)
- ¹¹ UL94 internally tested

购买地点

供应商	
Sicoflex ABS MZ341	Ravago Group , Belgium 电话: +32-14-672511 Web: http://www.ravago.com/
LG ABS ER461	LG Chem Ltd. Englewood Cliffs, NJ USA 电话: 201-816-2302 Web: http://www.chemwide.com/
TAIRILAC® AG12AJ	Formosa Chemicals & Fibre Corporation Taipei, Taiwan 电话: +886-2-2712-2211 Web: http://en.fcfc-plastics.com/
TAIRILAC® AG12A0	Formosa Chemicals & Fibre Corporation Taipei, Taiwan 电话: +886-2-2712-2211 Web: http://en.fcfc-plastics.com/



分销商

Sicoflex ABS MZ341

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LG ABS ER461

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Web: <http://www.polymix.eu/>

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Web: <http://www.primelinepolymers.com/>

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Resin Resource, Inc.

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供货地区: North America

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Web: <http://www.telko.com/>

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Web: <http://www.clickplastics.com>

供货地区: Germany

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Web: <http://www.gazechim.com/>

供货地区: Italy

Osterman & Company

电话: 800-914-4437

Web: <http://www.osterman-co.com/>

供货地区: North America



PolySource

电话: 866-558-5300

Web: <http://www.polysource.net/>

供货地区: North America

Resinal de México

电话: +52-55-5254-7600

Web: <http://resinal.mx/>

供货地区: Mexico

TAIRILAC® AG12A0

Click Plastics AG

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