

# G-Lex 19 PC

Polycarbonate  
Gardiner Compounds Ltd.

Message:

G-Lex is a polycarbonate compound that has been made from a specified and approved feedstock for the last fifteen years. It is noted for its high impact resistance over a wide range of temperatures. It has excellent heat resistance and all grades pass the 850oC glow wire test at 1.0mm. The high flow grade is particularly suited to thin wall, long flow length application.

G-Lex complies with all recycling directives and can be recycled in the normal way. After its first application the resin can be reground and reused either in a similar manner or cascaded down for reuse in less demanding applications.

Typical applications include electrical goods, lighting, telecommunications, appliances and security devices and other applications where strength and impact are important.

This material is available in Black and natural and most semi translucent, translucent and opaque colours.

General Information			
Recycled Content	Yes		
Features	Impact resistance, high		
	Recyclable materials		
	Good strength		
	High liquidity		
	Heat resistance, high		
Uses	Electrical/Electronic Applications		
	Electrical components		
	Electrical appliances		
	Communication Equipment		
	Lighting device		
Appearance	Translucent		
	Opacity		
	Black		
	Natural color		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	20	g/10 min	ISO 1133
Molding Shrinkage <sup>1</sup>	0.50 - 0.70	%	ISO 2577
Water Absorption (equilibrium, 23°C, 85% RH)	0.35	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2300	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	63.0	MPa	ISO 527-2/50

Fracture	> 50.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	6.0	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	12	kJ/m <sup>2</sup>	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	No Break		ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	124	°C	ISO 75-2/A
Vicat Softening Temperature	140	°C	ISO 306/B120
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Glow Wire Flammability Index (1.00 mm)	850	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	< 4.0	hr	
Suggested Max Moisture	< 0.020	%	
Rear Temperature	240 - 265	°C	
Middle Temperature	265 - 290	°C	
Front Temperature	275 - 300	°C	
Nozzle Temperature	265 - 275	°C	
Processing (Melt) Temp	310	°C	
Mold Temperature	80.0 - 100	°C	
Injection instructions			
Max Dwell Time: 8 mins			
NOTE			
1.	500 bar		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT