G-Lex 12 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/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	12	g/10 min	ISO 1133
Molding Shrinkage [1]	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^2	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		

Recommended distributors for this material

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