# Clariant PC PC-1100G40

## Polycarbonate

#### **Clariant Corporation**

#### Message:

Clariant PC PC-1100G40 is a polycarbonate (PC) material, which contains a 40% glass fiber reinforced material. This product is available in North America and is processed by injection molding.

The main features of Clariant PC PC-1100G40 are:

flame retardant/rated flame

high strength

Good processability

Hard

Corrosion resistance

Typical application areas include:

Electrical/electronic applications

military applications

Sporting goods

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight			
Features	Good dimensional stability			
	Rigidity, high			
	Rigid, good			
	High strength			
	Workability, good			
	Good corrosion resistance			
	Good coloring			
	Good chemical resistance			
	Good toughness			
	Low or no water absorption	1		
Uses	Metal substitution			
	Military application			
	Sporting goods			
	Camera application			
Appearance	Available colors			
	Natural color			
Forms	Particle			
Processing Method	Injection molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	1.52	g/cm³	ASTM D792	
Molding Shrinkage - Flow (3.18 mm)	0.10	%	ASTM D955	
Water Absorption			ASTM D570	

0.070	%	ASTM D570
0.16	%	ASTM D570
Nominal Value	Unit	Test Method
		ASTM D785
96		ASTM D785
120		ASTM D785
Nominal Value	Unit	Test Method
145	МРа	ASTM D638
4.0	%	ASTM D638
9650	MPa	ASTM D790
200	МРа	ASTM D790
Nominal Value	Unit	Test Method
140	J/m	ASTM D256
Nominal Value	Unit	Test Method
		ASTM D648
152	°C	ASTM D648
149	°C	ASTM D648
1.9E-5	cm/cm/°C	ASTM D696
Nominal Value	Unit	Test Method
1.0E+16	ohms·cm	ASTM D257
19	kV/mm	ASTM D149
Nominal Value	Unit	Test Method
V-1		UL 94
Nominal Value	Unit	
121	°C	
4.0	hr	
0.020	%	
304 - 343	°C	
304 - 343	°C	
304 - 343	°C	
304 - 327	°C	
316	°C	
82.2 - 121	°C	
Fast		
0.345 - 0.689	MPa	
0.345 - 0.689 45 - 75	MPa rpm	
	0.16  Nominal Value  96 120  Nominal Value 145 4.0 9650 200  Nominal Value 140  Nominal Value 140  Nominal Value 152 149 1.9E-5  Nominal Value 1.0E+16 19  Nominal Value  V-1  Nominal Value 121 4.0 0.020 304 - 343 304 - 343 304 - 343 304 - 347 316 82.2 - 121	0.16       %         Nominal Value       Unit         96       120         Nominal Value       Unit         145       MPa         4.0       %         9650       MPa         Nominal Value       Unit         140       J/m         Nominal Value       Unit         152       °C         149       °C         1.9E-5       cm/cm/°C         Nominal Value       Unit         19       kV/mm         Nominal Value       Unit         V-1       Nominal Value       Unit         121       °C         4.0       hr       0.020         304 - 343       °C         304 - 343       °C         304 - 343       °C         304 - 343       °C         304 - 327       °C         316       °C         82.2 - 121       °C

The minimum injection pressure required to fill the part should be used for the first stage. The hold pressure should be set between 50% and 75% of the injection pressure.

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## Recommended distributors for this material

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