

Gebalon PC ULtimate G5 FR(y)

Polycarbonate

geba Kunststoffcompounds GmbH

Message:

5% GF, halogen-free flame retardant PC type, UL94-V0, UL recognized and evaluated by UL to UL94 V0

Applications:

technical injection molded parts, in particular the electronics and electrical industry, such as connectors, boxes, switches

General Information			
Filler / Reinforcement	Glass Fiber,5.0% Filler by Weight		
Features	Flame Retardant		
	Halogen Free		
Uses	Connectors		
	Electrical/Electronic Applications		
	Switches		
UL File Number	E346354		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.22	g/cm ³	ISO 1183
Molding Shrinkage	0.40 to 0.90	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3000	MPa	ISO 527-2/1/1
Tensile Stress (Yield)	70.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	5.0	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	85	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	140	°C	ISO 75-2/B
1.8 MPa, Unannealed	135	°C	ISO 75-2/A
Vicat Softening Temperature	141	°C	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-0		
3.00 mm	V-0		
Glow Wire Ignition Temperature (1.50 mm)	960	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Drying Temperature - Dry Air Dryer	100 to 120	°C	

Drying Time - Dry Air Dryer	2.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	260 to 280	°C
Middle Temperature	280 to 310	°C
Front Temperature	290 to 320	°C
Nozzle Temperature	290 to 320	°C
Processing (Melt) Temp	290 to 320	°C
Mold Temperature	100 to 120	°C

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