

DiaAlloy FC-304G

Polycarbonate
Mitsubishi Rayon America Inc.

Message:

DiaAlloy FC-304G is a Polycarbonate (PC) material filled with 20% glass fiber. It is available in North America.

Important attributes of DiaAlloy FC-304G are:

Flame Rated
Flame Retardant
Heat Resistant
Impact Resistant

Typical applications include:

Electrical/Electronic Applications
Housings

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Flame Retardant		
	High Heat Resistance		
	Low Temperature Impact Resistance		
Uses	Computer Components		
	Housings		
UL File Number	E54695		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.36	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.20 to 0.30	%	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	112		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	88.2	MPa	ASTM D638
Tensile Elongation (Yield)	4.0	%	ASTM D638
Flexural Modulus	5390	MPa	ASTM D790
Flexural Strength (Yield)	136	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	80	J/m	ASTM D256
Unnotched Izod Impact			ASTM D256
-30°C	70	J/m	
23°C	80	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648

0.45 MPa, Unannealed	135	°C	
1.8 MPa, Unannealed	120	°C	
Vicat Softening Temperature	124	°C	ASTM D1525
Melting Temperature	200 to 250	°C	
CLTE - Flow	3.5E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating (1.59 mm)	V-0		UL 94

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