

DiaAlloy FC-30

Polycarbonate

Mitsubishi Rayon America Inc.

Message:

DiaAlloy FC-30 is a Polycarbonate (PC) material. It is available in North America.

Important attributes of DiaAlloy FC-30 are:

Flame Rated

Flame Retardant

Heat Resistant

Impact Resistant

Typical applications include:

Electrical/Electronic Applications

Housings

General Information			
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	1.21	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Water Absorption (24 hr)	0.20	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	104		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	47.0	MPa	ASTM D638
Tensile Elongation (Yield)	80	%	ASTM D638
Flexural Modulus	2160	MPa	ASTM D790
Flexural Strength (Yield)	72.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	450	J/m	ASTM D256
Unnotched Izod Impact (23°C)	700	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	124	°C	
1.8 MPa, Unannealed	103	°C	
Melting Temperature	200 to 250	°C	

CLTE - Flow	7.5E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating (1.59 mm)	V-0		UL 94

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Recommended distributors for this material

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