

DiaAlloy FA-30

Polycarbonate

Mitsubishi Rayon America Inc.

Message:

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

Important attributes of DiaAlloy FA-30 are:

Flame Rated

Flame Retardant

Good Weather Resistance

Heat Resistant

Impact Resistant

Typical application of DiaAlloy FA-30: Housings

General Information			
Features	Flame Retardant		
	Good Impact Resistance		
	Good Weather Resistance		
	High Heat Resistance		
Uses	Housings		
UL File Number	E54695		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.55	%	ASTM D955
Water Absorption (24 hr)	0.20	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	109		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	51.4	MPa	ASTM D638
Tensile Elongation (Yield)	75	%	ASTM D638
Flexural Modulus	2250	MPa	ASTM D790
Flexural Strength (Yield)	81.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	150	J/m	ASTM D256
Unnotched Izod Impact (23°C)	450	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	130	°C	
1.8 MPa, Unannealed	110	°C	
Melting Temperature	200 to 250	°C	
CLTE - Flow	8.5E-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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