

DiaAlloy FP-30

Polycarbonate

Mitsubishi Rayon America Inc.

Message:

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

Important attributes of DiaAlloy FP-30 are:

Flame Rated

Flame Retardant

Impact Resistant

Typical application of DiaAlloy FP-30: Housings

General Information			
Features	Flame Retardant		
	Good Impact Resistance		
Uses	Housings		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.50 to 0.80	%	ASTM D955
Water Absorption (24 hr)	0.040	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	112		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	49.0	MPa	ASTM D638
Tensile Elongation (Yield)	100	%	ASTM D638
Flexural Modulus	2060	MPa	ASTM D790
Flexural Strength (Yield)	74.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C	250	J/m	
23°C	550	J/m	
Unnotched Izod Impact			ASTM D256
-30°C	450	J/m	
23°C	700	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	115	°C	
1.8 MPa, Unannealed	100	°C	
Melting Temperature	230 to 270	°C	
CLTE - Flow	8.0E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method

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