

DiaAlloy TP-50

Polycarbonate

Mitsubishi Rayon America Inc.

Message:

DiaAlloy TP-50 is a Polycarbonate (PC) material. It is available in North America.

Important attributes of DiaAlloy TP-50 are:

Flame Rated

Impact Resistant

Typical application of DiaAlloy TP-50: Automotive

General Information			
Features	Good Impact Resistance		
Uses	Automotive Applications		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.80 to 1.1	%	ASTM D955
Water Absorption (24 hr)	0.030	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	108		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	44.1	MPa	ASTM D638
Tensile Elongation (Yield)	100	%	ASTM D638
Flexural Modulus	2060	MPa	ASTM D790
Flexural Strength (Yield)	78.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	290	J/m	
-30°C	290	J/m	
23°C	600	J/m	
Unnotched Izod Impact			ASTM D256
-40°C	290	J/m	
23°C	780	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	115	°C	
1.8 MPa, Unannealed	80.0	°C	
Vicat Softening Temperature	167	°C	ASTM D1525
Melting Temperature	230 to 270	°C	
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method

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