

DiaAlloy TC-1

Polycarbonate

Mitsubishi Rayon America Inc.

Message:

DiaAlloy TC-1 is a Polycarbonate (PC) material. It is available in North America.

Important attributes of DiaAlloy TC-1 are:

Flame Rated

Heat Resistant

Impact Resistant

Typical application of DiaAlloy TC-1: Automotive

General Information			
Features	High Heat Resistance		
	Low Temperature Impact Resistance		
Uses	Automotive Applications		
UL File Number	E54695		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	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)	108		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	46.1	MPa	ASTM D638
Tensile Elongation (Yield)	70	%	ASTM D638
Flexural Modulus	2010	MPa	ASTM D790
Flexural Strength (Yield)	71.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	200	J/m	
23°C	450	J/m	
Unnotched Izod Impact (23°C)	360	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	125	°C	
1.8 MPa, Unannealed	106	°C	
Melting Temperature	230 to 260	°C	
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating (1.59 mm)	HB		UL 94

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Recommended distributors for this material

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