

DiaAlloy TCL-1

Polycarbonate
Mitsubishi Rayon America Inc.

Message:

DiaAlloy TCL-1 is a Polycarbonate (PC) material. It is available in North America.
Important attributes of DiaAlloy TCL-1 are:
Flame Rated
Heat Resistant
Impact Resistant
Typical application of DiaAlloy TCL-1: Automotive

General Information			
Features	High Heat Resistance		
	Low Temperature Impact Resistance		
Uses	Automotive Applications		
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)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	43.1	MPa	ASTM D638
Tensile Elongation (Yield)	80	%	ASTM D638
Flexural Modulus	1860	MPa	ASTM D790
Flexural Strength (Yield)	64.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	400	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	128	°C	
1.8 MPa, Unannealed	109	°C	
Melting Temperature	230 to 260	°C	
CLTE - Flow	8.5E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating (1.59 mm)	HB		UL 94

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