

Eastalloy DA510

Polycarbonate + Polyester
Eastman Chemical Company

Message:

Eastalloy™ Polymer DA510 is a clear copolyester/polycarbonate alloy. This product has good physical properties. These include good impact strength, chemical resistance, heat resistance, dimensional stability, and low mold shrinkage.

General Information			
UL YellowCard	E118289-220184		
Features	Good dimensional stability		
	Impact resistance, good		
	Good chemical resistance		
	Heat resistance, high		
	Low shrinkage		
Appearance	Available colors		
	Clear/transparent		
	Natural color		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.50 - 0.70	%	ASTM D955
Water Absorption (24 hr)	0.15	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	50.0	MPa	ASTM D638
Fracture	56.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	5.5	%	ASTM D638
Fracture	200	%	ASTM D638
Flexural Modulus	2100	MPa	ASTM D790
Flexural Strength	76.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	91	J/m	ASTM D256
23°C	No Break		ASTM D256
Unnotched Izod Impact			ASTM D4812
-40°C	No Break		ASTM D4812
23°C	No Break		ASTM D4812

Instrumented Dart Impact			ASTM D3763
-40°C, Energy at Peak Load	49.0	J	ASTM D3763
23°C, Energy at Peak Load	55.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	90.0	°C	ASTM D648
1.8 MPa, not annealed	77.0	°C	ASTM D648
Optical	Nominal Value	Unit	Test Method
Transmittance (Total)	86.0	%	ASTM D1003
Haze	0.50	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	88	°C	
Drying Time	4.0 - 6.0	hr	
Processing (Melt) Temp	266 - 288	°C	
Mold Temperature	27 - 60	°C	

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