

## Eastman Eastalloy DA510 Polymer (discontinued \*\*)

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/PET Polyester Blend , Polyester, TP , Polyethylene Terephthalate (PET)

### Material Notes:

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. Applications/Uses Injection Molding Key Attributes Good chemical resistance Good Clarity Sterilizable with ethylene oxide, electron beam, and gamma rays Wide range of clear tints and opaque colors Elevated in-use temperature resistance Heat resistance Tough, excellent impact strength

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Eastman-Eastalloy-DA510-Polymer-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Eastman-Eastalloy-DA510-Polymer-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Water Absorption	0.15 %	0.15 %	24h Immersion; ASTM D570
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	56.0 MPa	8120 psi	ASTM D638
Tensile Strength, Yield	50.0 MPa	7250 psi	ASTM D638
Elongation at Break	195 %	195 %	ASTM D638
Elongation at Yield	5.5 %	5.5 %	ASTM D638
Flexural Strength	76.0 MPa	11000 psi	ASTM D790
Flexural Modulus	2.10 GPa	305 ksi	ASTM D790
Izod Impact, Notched	0.910 J/cm	1.70 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Izod Impact, Unnotched	NB	NB	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched	NB	NB	ASTM D4812
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Puncture Energy	55.0 J	40.6 ft-lb	Puncture Resistance @Max Load, 23°C; ASTM D3763
	49.0 J	36.1 ft-lb	
	@Temperature -40.0 °C	@Temperature -40.0 °F	Puncture Resistance at Max Load; ASTM D3763

Mechanical Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	90.0 °C	194 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	77.0 °C	171 °F	ASTM D648

Optical Properties	Metric	English	Comments
Haze	0.50 %	0.50 %	ASTM D1003
Transmission, Visible	86 %	86 %	Total Transmittance; ASTM D1003

Processing Properties	Metric	English	Comments
Melt Temperature	266 - 288 °C	511 - 550 °F	
Mold Temperature	27.0 - 60.0 °C	80.6 - 140 °F	
Drying Temperature	88.0 °C	190 °F	
Dry Time	4 - 6 hour	4 - 6 hour	

## Contact Songhan Plastic Technology Co.,Ltd.

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