

Product Texts

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

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Yield	50	MPa	ASTM D 638
Tensile Strength at Break	56	MPa	ASTM D 638
Elongation at Yield	5.5	%	ASTM D 638
Elongation at Break	195	%	ASTM D 638
Flexural Modulus	2100	MPa	ASTM D 790
Flexural Strength	76	MPa	ASTM D 790
Izod Impact notched, 1/8 in	N	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	91	J/m	ASTM D 256
Temperature	-40	°C	-
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
DTUL @ 66 psi	90	°C	ASTM D 648
DTUL @ 264 psi	77	°C	ASTM D 648

Optical properties	Value	Unit	Test Standard
ASTM Data			
Haze	0.5	%	ASTM D 1003
Light Transmittance	86	%	ASTM D 1003

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.15	%	ASTM D 570
Density	1200	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	88	°C	-
Pre-drying - Time	4 - 6	h	-
Melt temperature	266 - 288	°C	-
Mold temperature	27 - 60	°C	-

Characteristics

Processing

Injection Molding

Special Characteristics

High impact or impact modified, Heat stabilized or stable to heat

Features

Copolymer

Chemical Resistance

General Chemical Resistance

Applications

Electrical and Electronical

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa