

**Product Texts**

Eastalloy™ DA003-8999K is a clear copolyester/polycarbonate alloy. This product has good impact strength, chemical resistance, dimensional stability and low shrinkage rates. DA003-8999K can be molded into thick-walled parts with essentially no crystalline haze generation.

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

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Yield stress	56	MPa	ISO 527
Yield strain	5.4	%	ISO 527
Stress at break	56	MPa	ISO 527
Strain at break	130	%	ISO 527
Flexural modulus, 23°C	2100	MPa	ISO 178
Izod notched impact strength, +23°C	10	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength Temperature	8.3	kJ/m <sup>2</sup>	ISO 180/1A
	-40	°C	-
Puncture energy, +23°C	19	J	ISO 6603-2
<b>ASTM Data</b>			
Tensile Strength at Yield	56	MPa	ASTM D 638
Tensile Strength at Break	60	MPa	ASTM D 638
Elongation at Yield	6	%	ASTM D 638
Elongation at Break	150	%	ASTM D 638
Flexural Modulus	2140	MPa	ASTM D 790
Rockwell Hardness	117	-	ASTM D 785
Izod Impact notched, 1/8 in	N	J/m	ASTM D 256
Izod Impact notched, Low-Temperature Temperature	75	J/m	ASTM D 256
	-40	°C	-

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	90	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	103	°C	ISO 75-1/-2
Vicat softening temperature, A	118	°C	ISO 306
Vicat softening temperature, B	110	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn. Thickness tested	HB	class	IEC 60695-11-10
	1.6	mm	-
Burning behav. at thickness h Thickness tested	V-2	class	IEC 60695-11-10
	3.2	mm	-
<b>ASTM Data</b>			
UL 94 Flame rating Thickness tested	HB	-	UL 94
	1.6	mm	-
DTUL @ 66 psi	103	°C	ASTM D 648
DTUL @ 264 psi	90	°C	ASTM D 648
Vicat Temperature	118	°C	ASTM D 1525

Electrical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Dielectric Strength, Short Time	17.3	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	0.008	-	ASTM D 150
Dielectric Constant, 1 MHz	2.1	-	ASTM D 150
Surface Resistivity	1E16	Ohm	ASTM D 257

**Eastalloy™ DA003-8999K**

(PC+Copolyester)

Eastman Chemical Co.

Volume Resistivity	<b>1E15</b>	Ohm*cm	ASTM D 257
Arc Resistance	<b>143</b>	s	ASTM D 495

<b>Optical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Haze	<b>3.6</b>	%	ASTM D 1003
Light Transmittance	<b>81</b>	%	ASTM D 1003

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	<b>1200</b>	kg/m <sup>3</sup>	ISO 1183

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>93</b>	°C	-
Pre-drying - Time	<b>4 - 6</b>	h	-
Melt temperature	<b>271 - 293</b>	°C	-
Mold temperature	<b>32 - 66</b>	°C	-

**Characteristics****Processing**

Injection Molding

**Special Characteristics**

High impact or impact modified

**Features**

Copolymer

**Chemical Resistance**

General Chemical Resistance

**Applications**

Medical

**Regional Availability**

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