

Eastman Eastalloy MA510 Polymer (discontinued **)

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

Material Notes:

Eastalloy MA510 Polymer is a clear copolyester/polycarbonate alloy. It affords the consumer excellent impact strength, chemical resistance, dimensional stability, low shrinkage rates and other enhanced physical properties advantages. Applications/Uses Medical Medical Devices 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-MA510-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, Notched | NB | NB | ASTM D256 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Izod Impact, Unnotched | NB | NB | ASTM D4812 |
| | NB | NB | |
| Puncture Energy | 55.0 J | 40.6 ft-lb | Puncture Resistance @Max Load, 23°C; ASTM D3763 |
| | 49.0 J | 36.1 ft-lb | |

| Mechanical Properties | Metric @ Temperature -40.0 °C | English @ Temperature -40.0 °F | Comments Puncture Resistance at Max Load; ASTM D1763 |
|-----------------------|----------------------------------|-----------------------------------|--|
|-----------------------|----------------------------------|-----------------------------------|--|

| Thermal 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.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China