

**Elix ABS E-LOOP M203FC CR**

ABS

Elix Polymers, S.L.

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melt volume-flow rate, MVR	<b>31</b>	cm <sup>3</sup> /10min	ISO 1133
Temperature	<b>220</b>	°C	-
Load	<b>10</b>	kg	-
Molding shrinkage, parallel	<b>0.6</b>	%	ISO 294-4, 2577
Molding shrinkage, normal	<b>0.6</b>	%	ISO 294-4, 2577

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	<b>2400</b>	MPa	ISO 527
Yield stress	<b>46</b>	MPa	ISO 527
Yield strain	<b>2.6</b>	%	ISO 527
Strain at break	<b>15</b>	%	ISO 527
Flexural modulus, 23°C	<b>2400</b>	MPa	ISO 178
Flexural strength	<b>70</b>	MPa	ISO 178
Charpy impact strength, +23°C	<b>110</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	<b>90</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	<b>15</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	<b>7</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	<b>15</b>	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength	<b>7</b>	kJ/m <sup>2</sup>	ISO 180/1A
Temperature	<b>-30</b>	°C	-
Ball indentation hardness	<b>110</b>	MPa	ISO 2039-1

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	<b>94</b>	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	<b>98</b>	°C	ISO 75-1/-2
Vicat softening temperature, B	<b>99</b>	°C	ISO 306
Coeff. of linear therm. expansion, parallel	<b>90</b>	E-6/K	ISO 11359-1/-2
Burning rate, FMVSS, Thickness 1 mm	<b>60<sup>(1)</sup></b>	mm/min	ISO 3795 (FMVSS 302)
Glow Wire Flammability Index (GWFI)	<b>700</b>	°C	IEC 60695-2-12
GWFI - thickness tested (1)	<b>2</b>	mm	-

1: 2 mm

<b>Electrical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Relative permittivity, 100Hz	<b>3</b>	-	IEC 62631-2-1
Relative permittivity, 1MHz	<b>2.9</b>	-	IEC 62631-2-1
Dissipation factor, 100Hz	<b>50</b>	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	<b>90</b>	E-4	IEC 62631-2-1
Volume resistivity	<b>1E13</b>	Ohm*m	IEC 62631-3-1
Surface resistivity	<b>1E15</b>	Ohm	IEC 62631-3-2
Electric strength	<b>35</b>	kV/mm	IEC 60243-1
Comparative tracking index	<b>600</b>	-	IEC 60112

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	<b>1050</b>	kg/m <sup>3</sup>	ISO 1183

<b>Test specimen production</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Injection Molding, melt temperature	<b>240</b>	°C	ISO 294
Injection Molding, mold temperature	<b>70</b>	°C	ISO 294
Injection Molding, injection velocity	<b>240</b>	mm/s	ISO 294

**Characteristics**

**Processing**

Injection Molding

**Delivery form**

Pellets

**Features**

High Gloss

**Certifications**

Recycled Resin Content, Food contact, Food approval FDA 21 CFR, Medical Grade, Biocompatibility ISO 10993, US Pharmacopeia Class VI Approved, RoHS compliant, ISCC Plus

**Applications**

Medical

**Regional Availability**

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