

**Elix ABS M545TF**

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>32</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>2250</b>	MPa	ISO 527
Yield stress	<b>42</b>	MPa	ISO 527
Yield strain	<b>2.6</b>	%	ISO 527
Strain at break	<b>25</b>	%	ISO 527
Flexural modulus, 23°C	<b>2300</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>17</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>98</b>	°C	ISO 306
Coeff. of linear therm. expansion, parallel	<b>90</b>	E-6/K	ISO 11359-1/-2
Glow Wire Flammability Index (GWFI)	<b>700</b>	°C	IEC 60695-2-12
GWFI - thickness tested (1)	<b>2</b>	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>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Melt temperature	<b>240</b>	°C	-
Mold temperature	<b>70</b>	°C	-
Injection speed	<b>240</b>	mm/s	-

**Characteristics**

## Elix ABS M545TF

ABS

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### Processing

Injection Molding

### Delivery form

Pellets

### Certifications

Food contact, RoHS compliant

### Regional Availability

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