

Elix ABS E-LOOP P3H-AT CR

ABS

Elix Polymers, S.L.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	12	cm ³ /10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2500	MPa	ISO 527
Yield stress	48	MPa	ISO 527
Yield strain	2.4	%	ISO 527
Strain at break	15	%	ISO 527
Flexural modulus, 23°C	2400	MPa	ISO 178
Flexural strength	71	MPa	ISO 178
Charpy impact strength, +23°C	180	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	90	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	20	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	11	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	18	kJ/m ²	ISO 180/1A
Izod notched impact strength	10	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-
Ball indentation hardness	105	MPa	ISO 2039-1

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	92	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	96	°C	ISO 75-1/-2
Vicat softening temperature, B	96	°C	ISO 306
Coeff. of linear therm. expansion, parallel	90	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.6	mm	-
Burning rate, FMVSS, Thickness 1 mm	50 ⁽¹⁾	mm/min	ISO 3795 (FMVSS 302)
Glow Wire Flammability Index (GWFI)	650	°C	IEC 60695-2-12
GWFI - thickness tested (1)	2	mm	-

1: 2 mm

Electrical properties	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 100Hz	3.1	-	IEC 62631-2-1
Relative permittivity, 1MHz	2.9	-	IEC 62631-2-1
Dissipation factor, 100Hz	60	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	80	E-4	IEC 62631-2-1
Volume resistivity	1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	1E15	Ohm	IEC 62631-3-2
Electric strength	33	kV/mm	IEC 60243-1
Comparative tracking index	600	-	IEC 60112

Other properties	Value	Unit	Test Standard
Density	1050	kg/m ³	ISO 1183

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

Characteristics

Processing

Injection Molding

Delivery form

Pellets

Special Characteristics

Anti-static

Features

High Gloss

Chemical Resistance

General Chemical Resistance

Certifications

Recycled Resin Content, RoHS compliant, ISCC Plus

Applications

Electrical and Electronical

Regional Availability

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