Elix ABS E-LOOP M205FC CR

ABS — Elix Polymers, S.L.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	**20**	cm³/10min	ISO 1133
Temperature	**220**	°C	-
Load	**10**	kg	-
Molding shrinkage, parallel	**0.5**	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.5**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**2550**	MPa	ISO 527
Yield stress	**50.5**	MPa	ISO 527
Yield strain	**2.6**	%	ISO 527
Nominal strain at break	**20**	%	ISO 527
Stress at break	**36.5**	MPa	ISO 527
Strain at break	**15**	%	ISO 527
Flexural modulus, 23°C	**2600**	MPa	ISO 178
Flexural strength	**75**	MPa	ISO 178
Charpy impact strength, +23°C	**124**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**100**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**16**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**7**	kJ/m²	ISO 179/1eA
Izod notched impact strength, +23°C	**15**	kJ/m²	ISO 180/1A
Izod notched impact strength	**7**	kJ/m²	ISO 180/1A
Temperature	**-30**	°C	-
Ball indentation hardness	**106**	MPa	ISO 2039-1

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**94**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**98**	°C	ISO 75-1/-2
Vicat softening temperature, B	**98**	°C	ISO 306
Coeff. of linear therm. expansion, parallel	**78**	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**81**	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	-
Glow Wire Flammability Index (GWFI)	**650**	°C	IEC 60695-2-12
GWFI - thickness tested (1)	**2**	mm	-

Electrical properties	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 100Hz	**3.04**	-	IEC 62631-2-1
Relative permittivity, 1MHz	**2.82**	-	IEC 62631-2-1
Dissipation factor, 100Hz	**53**	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	**96**	E-4	IEC 62631-2-1
Volume resistivity	**2E14**	Ohm*m	IEC 62631-3-1
Surface resistivity	**2E17**	Ohm	IEC 62631-3-2

Other properties	Value	Unit	Test Standard
Density	**1050**	kg/m³	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

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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