

ELIX™ 5130

Polycarbonate + ABS

ELIX Polymers, S. L.

Message:

PC/ABS blend, injection molding grade that poses a good combination of impact, stiffness and toughness. Vicat B120 = 130°C

Benefits:

Easy Flow

Very high impact up to -40°C

Low emission grade

UV stabilized grade

Good stability even with high humidity conditions

Low shrinkage

Good paintability

Thin-walled parts

Chemical Composition:

Thermoplastic polymer blend based on polycarbonate (PC) and acrylonitrile-butadiene-styrene (ABS).

General Information			
Features	Good Flow		
	Good Stability		
	Good UV Resistance		
	High Impact Resistance		
	Low Emissions		
	Low Shrinkage		
	Paintable		
Appearance	Yellow		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density (25°C)	1.13	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	21.0	cm ³ /10min	ISO 1133
Molding Shrinkage ¹			
Across Flow	0.65 to 0.75	%	ISO 294-4
Flow	0.65 to 0.75	%	ISO 2577
Water Absorption			ISO 62
Saturation, 23°C	0.70	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2270	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	52.0	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	28	%	ISO 527-2/50
Flexural Modulus ² (23°C)	2280	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact Strength			ISO 180/1A
-40°C	30	kJ/m ²	
-30°C	> 30	kJ/m ²	
23°C	> 38	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	123	°C	ISO 75-2/B
1.8 MPa, Unannealed	104	°C	ISO 75-2/A
Vicat Softening Temperature	130	°C	ISO 306/B120
CLTE			ISO 11359-2
Flow : 23 to 55°C	7.7E-5	cm/cm/°C	
Transverse : 23 to 55°C	8.1E-5	cm/cm/°C	
Flammability	Nominal Value	Unit	Test Method
Burning Rate ³	< 80	mm/min	ISO 3795
Flame Rating (1.60 mm)	HB		UL 94
Injection	Nominal Value	Unit	Test Method
Processing (Melt) Temp	260	°C	
Mold Temperature	80.0	°C	
Injection Velocity	40	mm/sec	ISO 294
NOTE			
1.	60x60x2mm		
2.	2.0 mm/min		
3.	150x105x1 mm		

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