

**Product Texts**

ELCRES XD2131 is a polycarbonate (PC) copolymer resin with excellent low temperature (-40C) ductility in combination with excellent processability and shorter injection molding cycle time compared to standard PC. ELCRES XD2131 resin is a product available in wide range of opaque colors and an excellent candidate for a wide variety of applications such as consumer electronics (CE) and adjacent applications.

UL Yellow Card Link [E207780-639862](https://www.ul.com/yellow-card-link/E207780-639862)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	9	cm <sup>3</sup> /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	10	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2150	MPa	ISO 527
Yield stress	56	MPa	ISO 527
Yield strain	6	%	ISO 527
Stress at break	59	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	2240	MPa	ISO 178
Flexural strength	85	MPa	ISO 178
Izod impact strength, +23°C	N	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 3mm	69	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	2010	MPa	ASTM D 638
Tensile Strength at Yield	55	MPa	ASTM D 638
Tensile Strength at Break	50	MPa	ASTM D 638
Elongation at Yield	6	%	ASTM D 638
Elongation at Break	92	%	ASTM D 638
Flexural Modulus	2220	MPa	ASTM D 790
Izod Impact notched, 1/8 in	850	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	750	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.4	mm	-
<b>ASTM Data</b>			
DTUL @ 66 psi	138	°C	ASTM D 648
DTUL @ 264 psi	123	°C	ASTM D 648
Vicat Temperature	143	°C	ASTM D 1525

Electrical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Dielectric Strength, Short Time	16.2	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	0.0093	-	ASTM D 150
Dielectric Constant, 1 MHz	2.64	-	ASTM D 150
Surface Resistivity	1E15	Ohm	ASTM D 257
Volume Resistivity	1E15	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Water absorption	0.35	%	Sim. to ISO 62
Density	1190	kg/m <sup>3</sup>	ISO 1183
Density	1180	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	295 - 315	°C	-
Mold temperature	70 - 95	°C	-
Zone 1	270 - 295	°C	-
Zone 2	280 - 305	°C	-
Zone 3	295 - 315	°C	-
Screw speed	40 - 70	rpm	-
Back pressure	0.3 - 0.7	MPa	-

## Characteristics

### Processing

Injection Molding

### Regional Availability

North America, Europe, Asia Pacific