

Product Texts

LEXAN™ CXT19 Resin is a High Heat Polycarbonate Copolymer Resin with Vicat of 190°C and crystal clear transparency. This resin is optimized to have a broad processing window with limited yellowing. It is available in limited transparent colors.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	30	cm ³ /10min	ISO 1133
Temperature	350	°C	-
Load	2.16	kg	-
ASTM Data			
Melt Flow Index, MFI	33	g/10min	ASTM D 1238
Temperature	350	°C	-
Load	2.16	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2500	MPa	ISO 527
Yield stress	80	MPa	ISO 527
Yield strain	7	%	ISO 527
Stress at break	65	MPa	ISO 527
Strain at break	25	%	ISO 527
Flexural modulus	2550	MPa	ISO 178
Charpy impact strength, +23°C, 3mm	N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C, 3mm	9	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C, 3mm	7	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	N	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 3mm	8	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 3mm	6	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2600	MPa	ASTM D 638
Tensile Strength at Yield	80	MPa	ASTM D 638
Tensile Strength at Break	65	MPa	ASTM D 638
Elongation at Yield	7.5	%	ASTM D 638
Elongation at Break	25	%	ASTM D 638
Flexural Modulus	2600	MPa	ASTM D 790
Izod Impact notched, 1/8 in	80	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	70	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	170	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	185	°C	ISO 75-1/-2
Vicat softening temperature, 120°C/h 50N	190	°C	ISO 306
Thermal Conductivity	0.2	W/(m K)	DIN 52616
ASTM Data			
DTUL @ 66 psi	185	°C	ASTM D 648
DTUL @ 264 psi	170	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Water absorption	0.5	%	Sim. to ISO 62
Humidity absorption	0.3	%	Sim. to ISO 62
Density	1220	kg/m ³	ISO 1183
Density	1220	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	135	°C	-
Pre-drying - Time	5 - 6	h	-
Processing humidity	≤0.02	%	-

Melt temperature	310 - 350	°C	-
Mold temperature	120 - 170	°C	-
Zone 1	280 - 330	°C	-
Zone 2	300 - 340	°C	-
Zone 3	310 - 350	°C	-
Screw speed	40 - 70	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics**Processing**

Injection Molding

Special Characteristics

Transparent

Applications

Automotive

Regional Availability

Europe