

Product Texts

ELCRIN EXL1484RCC polycarbonate (PC) siloxane copolymer resin is a UV stabilized, medium flow opaque injection molding (IM) grade with 75% post consumer recycle (PCR) content. This resin offers extreme low temperature (-40 C) ductility, good chemical resistance in combination with excellent processability and release with opportunities for shorter IM cycle times compared to standard PC. ELCRIN EXL1484RCC resin is a product available in wide range of opaque colors and may be an excellent candidate for a wide variety of applications.

UL Yellow Card [E207780-104532865](https://www.ul.com/yellow-card/E207780-104532865)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	10	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
ASTM Data			
Melt Flow Index, MFI	11	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.006	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2130	MPa	ISO 527
Yield stress	56	MPa	ISO 527
Yield strain	5.6	%	ISO 527
Stress at break	58	MPa	ISO 527
Strain at break	100	%	ISO 527
Flexural modulus, 23°C	2160	MPa	ISO 178
Flexural strength	86	MPa	ISO 178
Charpy notched impact strength, +23°C	73	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	67	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	72	kJ/m ²	ISO 180/1A
Izod notched impact strength	62	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-
ASTM Data			
Tensile Modulus	2150	MPa	ASTM D 638
Tensile Strength at Yield	56	MPa	ASTM D 638
Tensile Strength at Break	54	MPa	ASTM D 638
Elongation at Yield	5.7	%	ASTM D 638
Elongation at Break	100	%	ASTM D 638
Flexural Modulus	2170	MPa	ASTM D 790
Flexural Strength	93	MPa	ASTM D 790
Rockwell Hardness	L 84	-	ASTM D 785
Izod Impact notched, 1/8 in	920	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	760	J/m	ASTM D 256
Temperature	-40	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	121	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	135	°C	ISO 75-1/-2
Vicat softening temperature, B	140	°C	ISO 306
Coeff. of linear therm. expansion, parallel	76	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	78	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.4	mm	-
Yellow Card available	yes	-	-

Oxygen index	33	%	ISO 4589-1/-2
Glow Wire Ignition Temperature (GWIT)	875	°C	IEC 60695-2-13
GWIT - thickness tested (1)	1	mm	-
ASTM Data			
Coefficient of Thermal Expansion, MD	69	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	72	E-6/K	ASTM D 696
DTUL @ 66 psi	135	°C	ASTM D 648
DTUL @ 264 psi	122	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	1E16	Ohm	ASTM D 257
Volume Resistivity	1E16	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	1190	kg/m ³	ISO 1183
Density	1190	kg/m ³	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	275 - 295	°C	-
Zone 2	280 - 305	°C	-
Zone 3	295 - 315	°C	-
Nozzle temperature	290 - 310	°C	-
Screw speed	40 - 70	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics

Processing

Injection Molding

Additives

Release agent

Special Characteristics

High impact or impact modified, U.V. stabilized or stable to weather, Opaque

Features

Ductile, Copolymer

Chemical Resistance

General Chemical Resistance

Certifications

Recycled Resin Content

Applications

Automotive, Building Construction, IT / Business Machine, Electrical and Electronical

Regional Availability

North America, Europe, Asia Pacific, South and Central America