

Product Texts

LNP™ ELCRIN™ DF0036RCC is a compound based on Post-Consumer Recycling (PCR) Polycarbonate resin containing Glass Fiber, Flame Retardant. Added features of this material include: good flatness, good ductility, improved flow, light blocking at 0.5mm, high reflective white & opaque black, Non-Brominated & Non-Chlorinated Flame Retardant. PCR polycarbonate content up to 50%.

UL Yellow Card Link [F207780-104464193](https://www.ul.com/yellow-card-link/F207780-104464193)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	9	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	-
Mechanical properties			
ISO Data			
Tensile Modulus	4480	MPa	ISO 527
Yield stress	73	MPa	ISO 527
Yield strain	2.5	%	ISO 527
Stress at break	71	MPa	ISO 527
Strain at break	2.8	%	ISO 527
Flexural modulus	4650	MPa	ISO 178
Charpy impact strength, +23°C	36	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	5	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C, 4mm	30	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	6	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	4460	MPa	ASTM D 638
Tensile Strength at Yield	73	MPa	ASTM D 638
Tensile Strength at Break	69	MPa	ASTM D 638
Elongation at Yield	2.6	%	ASTM D 638
Elongation at Break	3.3	%	ASTM D 638
Flexural Modulus	4540	MPa	ASTM D 790
Izod Impact notched, 1/8 in	64	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	480	J/m	ASTM D 256
Thermal properties			
ISO Data			
Temp. of deflection under load, 1.80 MPa	120	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	126	°C	ISO 75-1/-2
Vicat softening temperature, B	127	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	129	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
ASTM Data			
DTUL @ 66 psi	125	°C	ASTM D 648
DTUL @ 264 psi	120	°C	ASTM D 648
Vicat Temperature	128	°C	ASTM D 1525
Other properties			
Density	1330	kg/m ³	ISO 1183
Density	1340	kg/m ³	ASTM D 792
Processing Recommendation Injection Molding			
Pre-drying - Time	4 - 6	h	-
Processing humidity	≤0.02	%	-

Melt temperature	285 - 310	°C	-
Mold temperature	80 - 110	°C	-
Zone 1	260 - 280	°C	-
Zone 2	270 - 290	°C	-
Zone 3	280 - 300	°C	-
Screw speed	30 - 90	rpm	-
Back pressure	0.1 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Additives

Flame retarding agent

Special Characteristics

Flame retardant

Certifications

Recycled Resin Content

Regional Availability

North America, Europe, Asia Pacific