

Product Texts

LNP ELCRIN DM0051RC compound is based on Polycarbonate (PC) resin containing minerals. Added features include: High Modulus, Good Flow, Good Ductility, Low Warpage and Non-Brominated & Non-Chlorinated Flame Retardant. This product has a PCR content up to 50%.

UL Yellow Card Link: [E207780-104587521](https://www.ul.com/yellow-card/E207780-104587521)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	9.5	g/10min	ASTM D 1238
Temperature	260	°C	-
Load	2.16	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	5750	MPa	ISO 527
Yield stress	58	MPa	ISO 527
Yield strain	2.8	%	ISO 527
Stress at break	35	MPa	ISO 527
Strain at break	5	%	ISO 527
Charpy notched impact strength, +23°C, 3mm	4.6	kJ/m ²	ISO 179/1eA
ASTM Data			
Tensile Modulus	5800	MPa	ASTM D 638
Tensile Strength at Yield	59	MPa	ASTM D 638
Tensile Strength at Break	38	MPa	ASTM D 638
Elongation at Yield	2.8	%	ASTM D 638
Elongation at Break	5.2	%	ASTM D 638
Flexural Modulus	5110	MPa	ASTM D 790
Flexural Strength	98	MPa	ASTM D 790
Izod Impact notched, 1/8 in	58	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	38	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	84	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	38	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	74	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	1.2	mm	-
Yellow Card available	yes	-	-
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	1.2	mm	-
DTUL @ 66 psi	90	°C	ASTM D 648
DTUL @ 264 psi	82	°C	ASTM D 648
Vicat Temperature	95	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1390	kg/m ³	ISO 1183
Density	1390	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	90 - 105	°C	-
Pre-drying - Time	4 - 6	h	-
Melt temperature	270 - 300	°C	-
Mold temperature	70 - 90	°C	-

Zone 1	250 - 270	°C	-
Zone 2	260 - 280	°C	-
Zone 3	270 - 290	°C	-
Nozzle temperature	280 - 300	°C	-

Characteristics**Processing**

Injection Molding

Special Characteristics

Flame retardant, Halogen-free

Features

Ductile, Low Warpage

Certifications

Recycled Resin Content

Applications

Electrical and Electronical

Regional Availability

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