LNP™ LUBRICOMP™ Compound DCL32

(PC+PTFE)-CF10 — Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP LUBRICOMP DCL32 compound is based on Polycarbonate (PC) resin containing 10% carbon fiber and 15% PTFE. Added features of this grade include: Wear Resistant, Electrically Conductive.

UL Yellow Card Link E45329-101343781

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**8000**	MPa	ISO 527
Stress at break	**107**	MPa	ISO 527
Strain at break	**1.9**	%	ISO 527
Flexural modulus	**6900**	MPa	ISO 178
Izod impact strength, +23°C, 4mm	**25**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	**8**	kJ/m²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**142**	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	**20**	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**82**	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	**V-0**	class	IEC 60695-11-10
Thickness tested	**3.0**	mm	-

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	**10000**	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	**1320**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**120**	°C	-
Pre-drying - Time	**4**	h	-
Processing humidity	**≤0.02**	%	-
Melt temperature	**305 - 325**	°C	-
Mold temperature	**80 - 110**	°C	-
Zone 1	**295 - 305**	°C	-
Zone 2	**310 - 320**	°C	-
Zone 3	**320 - 330**	°C	-
Screw speed	**30 - 60**	rpm	-
Back pressure	**0.2 - 0.3**	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Special Characteristics

Increased electrical conductivity