

Product Texts

LNP LUBRICOMP DP0039EF compound is based on Polycarbonate (PC) resin containing 15% PTFE/silicone. Added features of this grade include: Internally Lubricated, Wear Resistant and Flame Retardant

UL Yellow Card Link [E207780-101343864](https://www.ulprospector.com/usa/Products/Plastics/PC/LNP-LUBRICOMP-DP0039EF)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	18.1	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	2.16	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2090	MPa	ISO 527
Yield stress	50	MPa	ISO 527
Yield strain	5.5	%	ISO 527
Stress at break	39	MPa	ISO 527
Strain at break	17.5	%	ISO 527
Flexural modulus	2170	MPa	ISO 178
Flexural strength	82	MPa	ISO 178
Izod impact strength, +23°C, 4mm	129	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	19	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	2120	MPa	ASTM D 638
Tensile Strength at Yield	50	MPa	ASTM D 638
Tensile Strength at Break	40	MPa	ASTM D 638
Elongation at Yield	5.5	%	ASTM D 638
Elongation at Break	14.7	%	ASTM D 638
Flexural Modulus	2140	MPa	ASTM D 790
Flexural Strength	80	MPa	ASTM D 790
Izod Impact notched, 1/8 in	302	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	2000	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	127	°C	ISO 75-1/-2
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	1.7	mm	-
ASTM Data			
DTUL @ 264 psi	126	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Water absorption	0.05	%	Sim. to ISO 62
Density	1310	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	300 - 315	°C	-
Mold temperature	80 - 110	°C	-
Zone 1	295 - 305	°C	-
Zone 2	305 - 315	°C	-
Zone 3	310 - 320	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics

Processing

Injection Molding

Special Characteristics

Flame retardant

Additives

Flame retarding agent

Regional Availability

North America, Europe, Asia Pacific