

LUCEL N145LD

POM

LG Chem

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	45	g/10min	ASTM D 1238
Temperature	190	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	0.0195	mm/mm	ASTM D 955
Mechanical properties			
ASTM Data	Value	Unit	Test Standard
Tensile Strength at Yield	62.3	MPa	ASTM D 638
Elongation at Break	50	%	ASTM D 638
Flexural Modulus	2649	MPa	ASTM D 790
Flexural Strength	93.2	MPa	ASTM D 790
Rockwell Hardness	R 82	-	ASTM D 785
Izod Impact notched, 1/4 in	51.8	J/m	ASTM D 256
Thermal properties			
ASTM Data	Value	Unit	Test Standard
UL 94 Flame rating	HB	-	UL 94
Thickness tested	0.71	mm	-
DTUL @ 66 psi	160	°C	ASTM D 648
DTUL @ 264 psi	110	°C	ASTM D 648
Electrical properties			
ASTM Data	Value	Unit	Test Standard
Dielectric Strength, Short Time	24	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	3.8	-	ASTM D 150
Surface Resistivity	1E16	Ohm	ASTM D 257
Volume Resistivity	1E14	Ohm*cm	ASTM D 257
Other properties			
Value	Unit	Test Standard	
Density	1410	kg/m ³	ASTM D 792
Processing Recommendation Injection Molding			
Value	Unit	Test Standard	
Pre-drying - Temperature	90 - 110	°C	-
Pre-drying - Time	3 - 6	h	-
Processing humidity	≤0.1	%	-
Melt temperature	190 - 200	°C	-
Mold temperature	60 - 80	°C	-
Zone 1	160 - 180	°C	-
Zone 2	180 - 200	°C	-
Zone 3	190 - 200	°C	-
Nozzle temperature	190 - 200	°C	-
Screw speed	50 - 100	rpm	-
Back pressure	4 - 8	MPa	-

Characteristics**Processing**

Injection Molding

Chemical Resistance

General Chemical Resistance

Applications

Automotive, Electrical and Electronical

Regional Availability

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