

Product Texts

LNP LUBRICOMP EX03599H compound is based on Polyetherimide (PEI) resin containing proprietary fillers. Added features of this grade include: Healthcare, Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.7	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.7	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.8	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3180	MPa	ISO 527
Yield stress	106	MPa	ISO 527
Yield strain	6.8	%	ISO 527
Stress at break	98	MPa	ISO 527
Strain at break	9.7	%	ISO 527
Flexural modulus	3140	MPa	ISO 178
Flexural strength	112	MPa	ISO 178
Izod impact strength, +23°C, 4mm	89	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	3330	MPa	ASTM D 638
Tensile Strength at Yield	105	MPa	ASTM D 638
Tensile Strength at Break	88	MPa	ASTM D 638
Elongation at Yield	7	%	ASTM D 638
Elongation at Break	27.5	%	ASTM D 638
Flexural Modulus	3480	MPa	ASTM D 790
Izod Impact notched, 1/8 in	48	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1380	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	187	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 264 psi	190	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.25	%	Sim. to ISO 62
Density	1280	kg/m ³	ISO 1183
Water Absorption, 24hr	0.1	%	ASTM D 570
Density	1280	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	150	°C	-
Pre-drying - Time	4 - 6	h	-
Processing humidity	≤0.02	%	-
Melt temperature	360 - 400	°C	-
Mold temperature	140 - 180	°C	-
Zone 1	360 - 380	°C	-
Zone 2	370 - 390	°C	-
Zone 3	380 - 400	°C	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific