

Product Texts

LNP LUBRICOMP YL003 compound is based on Polyester Elastomer resin containing 15% PTFE. Added features of this grade include: Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	2	mm/mm	ASTM D 955
Mold Shrinkage, TD	2	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	240	MPa	ISO 527
Yield stress	14	MPa	ISO 527
Yield strain	43.5	%	ISO 527
Flexural modulus	220	MPa	ISO 178
Izod impact strength, +23°C, 4mm	42	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	35	kJ/m ²	ISO 180/1A

ASTM Data	Value	Unit	Test Standard
Tensile Modulus	230	MPa	ASTM D 638
Tensile Strength at Yield	43	MPa	ASTM D 638
Elongation at Yield	14.2	%	ASTM D 638
Flexural Modulus	230	MPa	ASTM D 790
Izod Impact notched, 1/8 in	312	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	455	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
Coefficient of Thermal Expansion, MD	172	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	188	E-6/K	ASTM D 696

Other properties	Value	Unit	Test Standard
Humidity absorption	0.47	%	Sim. to ISO 62
Water Absorption, 24hr	0.33	%	ASTM D 570
Density	1280	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.1	%	-
Melt temperature	215 - 240	°C	-
Mold temperature	25 - 55	°C	-
Zone 1	180 - 195	°C	-
Zone 2	205 - 215	°C	-
Zone 3	225 - 240	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America