

LNP™ LUBRICOMP™ Compound AL0039

(ABS+PTFE)

Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP LUBRICOMP AL0039 compound is based on Acrylonitrile Butadiene Styrene (ABS) resin containing 15% PTFE. Added features of this grade include: Flame Retardant, Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
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	2250	MPa	ISO 527
Yield stress	37	MPa	ISO 527
Yield strain	2.3	%	ISO 527
Stress at break	34	MPa	ISO 527
Strain at break	8.5	%	ISO 527
Flexural modulus	2340	MPa	ISO 178
Izod impact strength, +23°C, 4mm	15	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	2	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	2420	MPa	ASTM D 638
Tensile Strength at Yield	38	MPa	ASTM D 638
Tensile Strength at Break	35	MPa	ASTM D 638
Elongation at Yield	2.3	%	ASTM D 638
Elongation at Break	7.8	%	ASTM D 638
Flexural Modulus	2480	MPa	ASTM D 790
Izod Impact notched, 1/8 in	27	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	230	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	84	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	96	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	94	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	88.9	E-6/K	ASTM D 696
DTUL @ 66 psi	95	°C	ASTM D 648
DTUL @ 264 psi	84	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.33	%	Sim. to ISO 62
Water Absorption, 24hr	0.23	%	ASTM D 570
Density	1260	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	260	°C	-
Mold temperature	70 - 80	°C	-
Zone 1	205 - 215	°C	-
Zone 2	230 - 245	°C	-
Zone 3	265 - 275	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics

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Processing

Injection Molding

Special Characteristics

Flame retardant

Additives

Flame retarding agent

Regional Availability

North America, Europe, Asia Pacific