

LNPT[™] LUBRICOMP[™] COMPOUND CG006

CL4360S NT8

DESCRIPTION

LNP LUBRICOMP CG006 compound is based on Polystyrene (PS) resin containing graphite. Added features of this grade include: Wear Resistant.

GENERAL INFORMATION	
Features	Wear resistant, No PFAS intentionally added
Fillers	Graphite
Polymer Types	Polystyrene (PS)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Building and Construction	Building Component, Water Management

TYPICAL PROPERTY VALUES

Revision 20241017

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL ⁽¹⁾			
Tensile Stress, break, 5 mm/min	45	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1.3	%	ISO 527
Tensile Modulus, 1 mm/min	6200	MPa	ISO 527
Flexural Stress, break, 2 mm/min	72	MPa	ISO 178
Flexural Modulus, 2 mm/min	5400	MPa	ISO 178
Tensile Stress, brk, Type I, 5 mm/min	6600	MPa	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	1.2	%	ASTM D638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	74	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	2100	MPa	ASTM D790
IMPACT ⁽¹⁾			
Izod Impact, unnotched 80*10*4 +23°C	10	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	2	kJ/m ²	ISO 180/1A
Charpy Impact, unnotched, 23°C	6.5	kJ/m ²	ISO 179/2C
Charpy Impact, notched, 23°C	1.2	kJ/m ²	ISO 179/2C
Charpy 23°C, Unnotch Edgew 80*10*3 sp=62mm	6.5	kJ/m ²	ISO 179/1eU
Charpy 23°C, V-notch Edgew 80*10*3 sp=62mm	1.2	kJ/m ²	ISO 179/1eA
Izod Impact, unnotched, 23°C	80	J/m	ASTM D4812
Izod Impact, notched, 23°C	12	J/m	ASTM D256
THERMAL ⁽¹⁾			
Vicat Softening Temp, Rate B/50	99	°C	ISO 306
Vicat Softening Temp, Rate B/120	101	°C	ISO 306
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	89	°C	ISO 75/Af
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	97	°C	ISO 75/Bf

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
PHYSICAL ⁽¹⁾			
Mold Shrinkage on Tensile Bar, flow ⁽²⁾	0.1 – 0.3	%	SABIC method
Wear Factor Washer	799	10 ⁻⁴ -10 in ³ -min/ft-lb-hr	ASTM D3702 Modified: Instr.
Dynamic COF	0.3	-	ASTM D3702 Modified: Instr.
Static COF	0.55	-	ASTM D3702 Modified: Instr.
Density	1.22	g/cm ³	ISO 1183
INJECTION MOLDING ⁽³⁾			
Drying Temperature	80	°C	
Drying Time	4	Hrs	
Maximum Moisture Content	0.02	%	
Drying Time (Cumulative)	48	Hrs	
Melt Temperature	250	°C	
Front - Zone 3 Temperature	265 – 275	°C	
Middle - Zone 2 Temperature	245 – 255	°C	
Rear - Zone 1 Temperature	220 – 230	°C	
Mold Temperature	40 – 65	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

(3) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

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