LNP™ LUBRICOMP™ COMPOUND AG5LT2

AG5LT2, POLYAMIDE 66 (NYLON 66), HEAT STABILIZER, MOLD RELEASE, PTFE, GLASS FIBER, STRUCTURAL, WEAR & FRICTION, WEAR RESISTANT, WEAR AND FRICTION, STRUCTURAL

DESCRIPTION

LNP* LUBRICOMP* AG5LT2 Is a compound based on PA66 resin, containing Glass Fiber and PTFE. Added features include: Internally Lubricated

TYPICAL PROPERTY VALUES

Revision 20191211

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break, 5 mm/min	168	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	3.4	%	ISO 527
Tensile Modulus, 1 mm/min	9500	MPa	ISO 527
Flexural Stress, break, 2 mm/min	234	MPa	ISO 178
Flexural Strain, break, 2 mm/min	3.7	%	ISO 178
Flexural Modulus, 2 mm/min	7900	MPa	ISO 178
IMPACT			
Izod Impact, unnotched 80*10*4 +23°C	55	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	11	kJ/m²	ISO 180/1A
THERMAL			
CTE, 23°C to 60°C, flow	2.5E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	9.9E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	259	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	246	°C	ISO 75/Af
PHYSICAL			
Mold Shrinkage, flow	0.2 – 0.4	%	SABIC method
Wear Factor Washer	11	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Instr.
Dynamic COF	0.42	-	ASTM D 3702 Modified: Instr.
Static COF	0.35	-	ASTM D 3702 Modified: Instr.
Density	1.4	g/cm³	ISO 1183
Water Absorption, 23°C/24hrs	0.74	%	ISO 62-1
INJECTION MOLDING			
Drying Temperature	80	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.15 – 0.25	%	
Melt Temperature	280 – 305	°C	
Front - Zone 3 Temperature	295 – 305	°C	
Middle - Zone 2 Temperature	280 – 295	°C	
Rear - Zone 1 Temperature	265 – 275	°C	
Mold Temperature	95 – 110	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

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