LNP™ LUBRICOMP™ COMPOUND PFL38S

PFL-4038 HS
REGION EUROPE

DESCRIPTION

LNP LUBRICOMP PFL38S is a compound based on Nylon 6 resin containing 40% Glass Fiber, 15% PTFE. Added features of this material include: Heat Stabilized, Wear Resistant

TYPICAL PROPERTY VALUES

Revision 20181223

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break, 5 mm/min	172	MPa	ISO 527
Tensile Strain, break, 5 mm/min	3.5	%	ISO 527
Tensile Modulus, 1 mm/min	13500	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	251	MPa	ISO 178
Flexural Stress, break, 2 mm/min	244	MPa	ISO 178
Flexural Strain, break, 2 mm/min	3.6	%	ISO 178
Flexural Modulus, 2 mm/min	11600	MPa	ISO 178
IMPACT			
Izod Impact, unnotched 80*10*4 +23°C	65	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	14	kJ/m²	ISO 180/1A
THERMAL			
CTE, 23°C to 60°C, flow	3.3E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	9.2E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	216	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	203	°C	ISO 75/Af
PHYSICAL			
Mold Shrinkage, flow	0.1 – 0.3	%	SABIC method
Wear Factor Washer	8	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Instr.
Dynamic COF	0.63	-	ASTM D 3702 Modified: Instr.
Static COF	1.1	-	ASTM D 3702 Modified: Instr.
Density	1.61	g/cm³	ISO 1183
Water Absorption, 23°C/24hrs	0.6	%	ISO 62-1
INJECTION MOLDING			
Drying Temperature	80	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.15 – 0.25	%	
Melt Temperature	265 – 275	°C	
Front - Zone 3 Temperature	275 – 290	°C	
Middle - Zone 2 Temperature	265 – 275	°C	
Rear - Zone 1 Temperature	250 – 260	°C	
Mold Temperature	80 – 95	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	30 – 60	rpm	

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