LNP™ LUBRICOMP™ COMPOUND UFL36S

BGU
REGION ASIA

DESCRIPTION

LNP LUBRICOMP* UFL36S is a compound based on Polyphthalamide resin containing 30% Glass Fiber, 15% PTFE. Added features of this material include: Heat Stabilized, Wear Resistant, Bearing Grade.

TYPICAL PROPERTY VALUES

Revision 20190731

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	196	MPa	ASTM D 638
Tensile Strain, break	2.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	12410	MPa	ASTM D 638
Flexural Stress	280	MPa	ASTM D 790
Flexural Modulus	10820	MPa	ASTM D 790
Tensile Stress, break	196	MPa	ISO 527
Tensile Strain, break	2.5	%	ISO 527
Tensile Modulus, 1 mm/min	9880	MPa	ISO 527
Flexural Stress	286	MPa	ISO 178
Flexural Modulus	11230	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	1014	J/m	ASTM D 4812
Izod Impact, notched, 23°C	117	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	7	J	ASTM D 3763
Multiaxial Impact	3	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	70	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	12	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	260	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	255	°C	ISO 75/Af
PHYSICAL			
Density	1.55	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.33	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.8	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.17	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.82	%	ISO 294
Wear Factor Washer	6	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.46	-	ASTM D 3702 Modified: Manual
Static COF	0.49	-	ASTM D 3702 Modified: Manual
Density	1.55	g/cm³	ISO 1183
INJECTION MOLDING			
Drying Temperature	120	°C	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Drying Time	4	hrs	
Maximum Moisture Content	0.15	%	
Melt Temperature	315 – 330	°C	
Front - Zone 3 Temperature	325 – 340	°C	
Middle - Zone 2 Temperature	315 – 325	°C	
Rear - Zone 1 Temperature	310 – 320	°C	
Mold Temperature	150 – 170	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

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