LNP™ LUBRICOMP™ COMPOUND RCL36S

RCL-4036 HS
REGION ASIA

DESCRIPTION

LNP LUBRICOMP* RCL36S is a compound based on Nylon 66 resin containing 30% Carbon Fiber, 15% PTFE. Added features of this material include: Electrically Conductive, Wear Resistant, Heat Stabilized.

TYPICAL PROPERTY VALUES

Revision 20190718

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	182	MPa	ASTM D 638
Tensile Strain, break	0.9	%	ASTM D 638
Tensile Modulus, 50 mm/min	32400	MPa	ASTM D 638
Flexural Stress	372	MPa	ASTM D 790
Flexural Modulus	18400	MPa	ASTM D 790
Tensile Stress, break	245	MPa	ISO 527
Tensile Strain, break	1.8	%	ISO 527
Tensile Modulus, 1 mm/min	22600	MPa	ISO 527
Flexural Stress	395	MPa	ISO 178
Flexural Modulus	22700	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	1046	J/m	ASTM D 4812
Izod Impact, notched, 23°C	101	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	10	J	ASTM D 3763
Multiaxial Impact	3	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	68	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	10	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	255	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	>240	°C	ISO 75/Af
PHYSICAL			
Density	1.38	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.53	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.1	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.7	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.11	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.72	%	ISO 294
Wear Factor Washer	15	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.36	-	ASTM D 3702 Modified: Manual
Static COF	0.3	-	ASTM D 3702 Modified: Manual
Density	1.38	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.84	%	ISO 62
INJECTION MOLDING			

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Drying Temperature	80	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.15 – 0.25	%	
Melt Temperature	275 – 290	°C	
Front - Zone 3 Temperature	295 – 305	°C	
Middle - Zone 2 Temperature	280 – 295	°C	
Rear - Zone 1 Temperature	265 – 275	°C	
Mold Temperature	80 – 95	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

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