LNP™ LUBRICOMP™ COMPOUND RCL26

RCL-4026

DESCRIPTION

LNP LUBRICOMP RCL26 is a compound based on Nylon 66 containing 30% Carbon Fiber, 10% PTFE. Added features of this grade include: Wear Resistant, Electrically Conductive.

TYPICAL PROPERTY VALUES

Revision 20191218

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	243	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.9	%	ASTM D 638
Tensile Modulus, 5 mm/min	24240	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	356	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	19100	MPa	ASTM D 790
Tensile Stress, break, 5 mm/min	236	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1.8	%	ISO 527
Tensile Modulus, 1 mm/min	23250	MPa	ISO 527
Flexural Stress	332	MPa	ISO 178
Flexural Modulus, 2 mm/min	18950	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	867	J/m	ASTM D 4812
Izod Impact, notched, 23°C	84	J/m	ASTM D 256
Multiaxial Impact	3	J	ISO 6603
Instrumented Impact Total Energy, 23°C	6	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	52	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	8	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	260	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	254	°C	ASTM D 648
CTE, -30°C to 30°C, flow	1.8E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	4.3E-05	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	260	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	252	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.34	-	ASTM D 792
Density	1.34	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.58	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.1 – 0.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.5 – 0.7	%	ASTM D 955
Wear Factor Washer	43	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Wear Factor Ring	0	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.41	-	ASTM D 3702 Modified: Manual
Static COF	0.33	-	ASTM D 3702 Modified: Manual

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Moisture Absorption (23°C / 50% RH)	0.79	%	ISO 62
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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