LNP™ LUBRILOY™ COMPOUND RF208

RF-40
REGION ASIA

DESCRIPTION

LNP LUBRILOY* RF208 is a compound based on Nylon 66 resin containing 40% Glass Fiber, Proprietary Lubricant. Added features of this material include: Wear Resistant.

TYPICAL PROPERTY VALUES

Revision 20181227

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	139	MPa	ASTM D 638
Tensile Strain, break	2.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	12340	MPa	ASTM D 638
Flexural Stress	200	MPa	ASTM D 790
Flexural Modulus	9030	MPa	ASTM D 790
Tensile Stress, break	136	MPa	ISO 527
Tensile Strain, break	2.7	%	ISO 527
Tensile Modulus, 1 mm/min	10500	MPa	ISO 527
Flexural Stress	211	MPa	ISO 178
Flexural Modulus	11300	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	720	J/m	ASTM D 4812
Izod Impact, notched, 23°C	133	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	55	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	13	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	241	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	238	°C	ISO 75/Af
PHYSICAL			
Density	1.34	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.27	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1.1	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.41	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	1.08	%	ISO 294
Wear Factor Washer	54	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.41	-	ASTM D 3702 Modified: Manual
Static COF	0.29	-	ASTM D 3702 Modified: Manual
Density	1.34	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.4	%	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	270 – 280	°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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