LNP™ LUBRICOMP™ COMPOUND ABL12

ABL-4012

DESCRIPTION

LNP* LUBRICOMP* ABL12 is a compound based on Acrylonitrile Butadiene Styrene resin containing 10% Glass Bead and 5% PTFE. Added feature of this material is: Wear Resistant.

TYPICAL PROPERTY VALUES

Revision 20191210

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	33	MPa	ASTM D 638
Tensile Stress, break	31	MPa	ASTM D 638
Tensile Strain, break	15	%	ASTM D 638
Tensile Modulus, 50 mm/min	2580	MPa	ASTM D 638
Flexural Stress	62	MPa	ASTM D 790
Flexural Modulus	2380	MPa	ASTM D 790
Tensile Stress, yield	32	MPa	ISO 527
Tensile Stress, break	31	MPa	ISO 527
Tensile Strain, break	28	%	ISO 527
Tensile Modulus, 1 mm/min	2280	MPa	ISO 527
Flexural Stress	59	MPa	ISO 178
Flexural Modulus	2280	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	560	J/m	ASTM D 4812
Izod Impact, notched, 23°C	80	J/m	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	33	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	8	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	80	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	88	°C	ISO 75/Af
PHYSICAL			
Density	1.14	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.2	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.1	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.2	%	ASTM D 955
Wear Factor Washer	125	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.39	-	ASTM D 3702 Modified: Manual
Static COF	0.44	-	ASTM D 3702 Modified: Manual
INJECTION MOLDING			
Drying Temperature	80	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.05 – 0.1	%	
Melt Temperature	260	°C	
Front - Zone 3 Temperature	265 – 275	°C	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Middle - Zone 2 Temperature	230 – 245	°C	
Rear - Zone 1 Temperature	205 – 215	°C	
Mold Temperature	70 – 80	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

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