LNP™ LUBRICOMP™ COMPOUND ZFG26

ZFL-4326
REGION ASIA

DESCRIPTION

LNP LUBRICOMP ZFG26 is a compound based on PPE+PS resin containing 30% Glass Fiber, 10% Graphite. Added features of this material include: Wear Resistant.

TYPICAL PROPERTY VALUES

Revision 20190814

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	109	MPa	ASTM D 638
Tensile Stress, break	115	MPa	ASTM D 638
Tensile Strain, yield	1.5	%	ASTM D 638
Tensile Strain, break	1.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	13100	MPa	ASTM D 638
Flexural Stress	165	MPa	ASTM D 790
Flexural Modulus	10480	MPa	ASTM D 790
Tensile Stress, yield	109	MPa	ISO 527
Tensile Stress, break	109	MPa	ISO 527
Tensile Strain, yield	1.5	%	ISO 527
Tensile Strain, break	1.5	%	ISO 527
Tensile Modulus, 1 mm/min	10480	MPa	ISO 527
Flexural Stress	163	MPa	ISO 178
Flexural Modulus	10000	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	377	J/m	ASTM D 4812
Izod Impact, notched, 23°C	80	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	6	J	ASTM D 3763
Multiaxial Impact	3	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	28	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	140	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	135	°C	ASTM D 648
CTE, -40°C to 40°C, flow	4.68E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	2.16E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	4.7E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	2.2E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	141	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	135	°C	ISO 75/Af
PHYSICAL			
Density	1.42	g/cm³	ASTM D 792
Mold Shrinkage, flow, 24 hrs	0.2	%	ASTM D 955

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Mold Shrinkage, xflow, 24 hrs	0.7	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.36	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.73	%	ISO 294
Wear Factor Washer	113	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.62	-	ASTM D 3702 Modified: Manual
Static COF	0.89	-	ASTM D 3702 Modified: Manual
Density	1.37	g/cm³	ISO 1183

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