LNP™ LUBRICOMP™ COMPOUND QCP36

QCL-4536
REGION ASIA

DESCRIPTION

LNP LUBRICOMP QCP36 is a compound based on Nylon 6/10 resin containing 15% PTFE/Silicone, 30% Carbon Fiber. Added features of this material include: Wear Resistant. Electrically Conductive

TYPICAL PROPERTY VALUES

Revision 20181224

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	173	MPa	ASTM D 638
Tensile Stress, break	173	MPa	ASTM D 638
Tensile Strain, yield	2	%	ASTM D 638
Tensile Strain, break	2	%	ASTM D 638
Tensile Modulus, 50 mm/min	19850	MPa	ASTM D 638
Flexural Stress	282	MPa	ASTM D 790
Flexural Modulus	16540	MPa	ASTM D 790
Tensile Stress, yield	188	MPa	ISO 527
Tensile Stress, break	188	MPa	ISO 527
Tensile Strain, yield	1.9	%	ISO 527
Tensile Strain, break	6.2	%	ISO 527
Tensile Modulus, 1 mm/min	19200	MPa	ISO 527
Flexural Stress	289	MPa	ISO 178
Flexural Modulus	17000	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	801	J/m	ASTM D 4812
Izod Impact, notched, 23°C	53	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	49	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	7	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	221	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	212	°C	ASTM D 648
CTE, -40°C to 40°C, flow	4.86E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	2.52E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	4.8E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	2.6E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	222	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	212	°C	ISO 75/Af
PHYSICAL			
Density	1.32	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.1	%	ASTM D 570

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Mold Shrinkage, flow, 24 hrs	0.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.8	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.35	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.8	%	ISO 294
Wear Factor Washer	15	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.46	-	ASTM D 3702 Modified: Manual
Static COF	0.46	-	ASTM D 3702 Modified: Manual
Density	1.32	g/cm³	ISO 1183

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