LNP* Lubricomp* Compound QFL36

Americas: COMMERCIAL

سايك

Also known as: QFL-4036 Product Reorder Name: QFL36

LNP LUBRICOMP* QFL36 is a compound based on Nylon 6/10 resin containing Glass Fiber, PTFE. Added features of this material include: Internally Lubricated.

Property

TYPICAL PROPERTIES ⁽¹⁾				
MECHANICAL	Value	Unit	Standard	
Tensile Stress, break	149	MPa	ASTM D 638	
Tensile Strain, break	2.6	%	ASTM D 638	
Fensile Modulus, 50 mm/min	11030	MPa	ASTM D 638	
Flexural Stress	221	MPa	ASTM D 790	
Flexural Modulus	8480	MPa	ASTM D 790	
Tensile Stress, break	150	MPa	ISO 527	
Tensile Strain, break	2.6	%	ISO 527	
Tensile Modulus, 1 mm/min	9800	MPa	ISO 527	
Flexural Stress	228	MPa	ISO 178	
Flexural Modulus	9700	MPa	ISO 178	
ІМРАСТ	Value	Unit	Standard	
Izod Impact, unnotched, 23°C	939	J/m	ASTM D 4812	
Izod Impact, notched, 23°C	117	J/m	ASTM D 256	
Instrumented Impact Energy @ peak, 23°C	8	J	ASTM D 3763	
Multiaxial Impact	3	J	ISO 6603	
Izod Impact, unnotched 80*10*4 +23°C	65	kJ/m²	ISO 180/1U	
Izod Impact, notched 80*10*4 +23°C	12	kJ/m²	ISO 180/1A	
THERMAL	Value	Unit	Standard	
HDT, 0.45 MPa, 3.2 mm, unannealed	223	°C	ASTM D 648	
HDT, 1.82 MPa, 3.2mm, unannealed	216	°C	ASTM D 648	
CTE, -40°C to 40°C, flow	2.88E-05	1/°C	ASTM E 831	
CTE, -40°C to 40°C, xflow	7.38E-05	1/°C	ASTM E 831	
CTE, -40°C to 40°C, flow	2.9E-05	1/°C	ISO 11359-2	
CTE, -40°C to 40°C, xflow	7.49E-05	1/°C	ISO 11359-2	
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	211	°C	ISO 75/Af	
PHYSICAL	Value	Unit	Standard	
Density	1.46	g/cm³	ASTM D 792	
Moisture Absorption, 50% RH, 24 hrs	0.13	%	ASTM D 570	
Mold Shrinkage, flow, 24 hrs	0.2	%	ASTM D 955	
Mold Shrinkage, xflow, 24 hrs	0.7	%	ASTM D 955	
Mold Shrinkage, flow, 24 hrs	0.17	%	ISO 294	
Mold Shrinkage, xflow, 24 hrs	0.7	%	ISO 294	
Wear Factor Washer	15	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified	
Dynamic COF	0.7	-	ASTM D 3702 Modified	
Static COF	0.52	-	ASTM D 3702 Modified	
Density	1.46	g/cm ³	ISO 1183	

Moisture Absorption (23°C / 50% RH)	0.22	%	ISO 62
		Sourc	e GMD, last updated:09/30/2004

Processing

Value	Unit
80	°C
4	hrs
0.12 - 0.2	%
270 - 275	°C
270 - 280	°C
260 - 270	°C
250 - 260	°C
80 - 95	°C
0.2 - 0.3	MPa
30 - 60	rpm
	80 4 0.12 - 0.2 270 - 275 270 - 280 260 - 270 250 - 260 80 - 95 0.2 - 0.3

Source GMD, last updated:09/30/2004

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR (LOCAL SALES OFFICE) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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