LNP™ LUBRICOMP™ COMPOUND WL0049

WL0049
REGION EUROPE

DESCRIPTION

LNP LUBRICOMP WL0049 is a compound based on PBT containing 20% PTFE. Added features include: Wear Resistant, Flame Retardant.

TYPICAL PROPERTY VALUES

Revision 20191031

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield, 5 mm/min	42	MPa	ISO 527
Tensile Stress, break, 5 mm/min	42	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	3	%	ISO 527
Tensile Modulus, 1 mm/min	2500	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	73	MPa	ISO 178
Flexural Stress, break, 2 mm/min	73	MPa	ISO 178
Flexural Strain, break, 2 mm/min	6.3	%	ISO 178
Flexural Modulus, 2 mm/min	2300	MPa	ISO 178
IMPACT			
Izod Impact, unnotched 80*10*4 +23°C	30	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	2	kJ/m²	ISO 180/1A
THERMAL			
CTE, 23°C to 60°C, flow	1.09E-04	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	1.01E-04	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	63	°C	ISO 75/Af
PHYSICAL			
Mold Shrinkage, flow	2.1	%	SABIC method
Mold Shrinkage, flow, 24 hrs	0.07	%	ISO 294
Density	1.52	g/cm³	ISO 1183
FLAME CHARACTERISTICS (1)			
UL Compliant, 94V-0 Flame Class Rating	1.5	mm	UL 94 by SABIC-IP
INJECTION MOLDING			
Drying Temperature	120	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.05	%	
Melt Temperature	245 – 260	°C	
Front - Zone 3 Temperature	250 – 260	°C	
Middle - Zone 2 Temperature	245 – 255	°C	
Rear - Zone 1 Temperature	230 – 245	°C	
Mold Temperature	80 – 100	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

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(1) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

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