LNP™ LUBRICOMP™ COMPOUND DL0029E

DL-4020 FR
REGION EUROPE

DESCRIPTION

LNP LUBRICOMP* DL0029E is a compound based on Polycarbonate resin containing 10% PTFE. Added features of this material include: Wear Resistant, Flame Retardant.

TYPICAL PROPERTY VALUES

Revision 20191125

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield, 5 mm/min	56	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	5.1	%	ISO 527
Tensile Modulus, 1 mm/min	2400	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	82	MPa	ISO 178
Flexural Strain, break, 2 mm/min	7	%	ISO 178
Flexural Modulus, 2 mm/min	2700	MPa	ISO 178
Flexural Strain, break, 2 mm/min, 60°C	7	%	ISO 178
Flexural Strain, break, 2 mm/min, 100°C	7	%	ISO 178
Flexural Stress, yield, 2 mm/min, 60°C	35	MPa	ISO 178
Flexural Stress, yield, 2 mm/min, 100°C	18	MPa	ISO 178
Flexural Modulus, 2 mm/min, 60°C	1400	MPa	ISO 178
Flexural Modulus, 2 mm/min, 100°C	700	MPa	ISO 178
IMPACT			
Izod Impact, unnotched 80*10*4 +23°C	135	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	6	kJ/m²	ISO 180/1A
THERMAL			
CTE, 23°C to 60°C, flow	9.E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	8.8E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	139	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	128	°C	ISO 75/Af
PHYSICAL			
Mold Shrinkage on Tensile Bar, flow	0.7 – 0.9	%	SABIC method
Wear Factor Washer	16	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.32	-	ASTM D 3702 Modified: Manual
Density	1.27	g/cm³	ISO 1183
Melt Volume Rate, MVR at 275°C/2.16 kg	24 – 32	cm³/10 min	ISO 1133
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E45329-101344455	-	-
UL Recognized, 94V-0 Flame Class Rating	≥1.7	mm	UL 94
INJECTION MOLDING			
Drying Temperature	120	°C	
Drying Time	4	hrs	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Maximum Moisture Content	0.02	%	
Melt Temperature	300 – 315	°C	
Front - Zone 3 Temperature	310 – 320	°C	
Middle - Zone 2 Temperature	305 – 315	°C	
Rear - Zone 1 Temperature	295 – 305	°C	
Mold Temperature	80 – 110	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

(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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