LNP™ LUBRICOMP™ COMPOUND 2X00858

PDX-FP-F-00858

DESCRIPTION

LNP LUBRICOMP 2X00858 compound is based on Fluorinated ethylene propylene (FEP) resin containing proprietary fillers. Added features of this grade include: Wear Resistant.

GENERAL INFORMATION	
Features	Wear resistant
Fillers	Proprietary Filler
Polymer Types	Fluorinated Ethylene Propylene (FEP)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Electrical and Electronics	Energy Management, Electronic Components
Industrial	Material Handling

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Stress, yld, Type I, 5 mm/min	14	MPa	ASTM D638
Tensile Stress, brk, Type I, 5 mm/min	12	MPa	ASTM D638
Tensile Strain, yld, Type I, 5 mm/min	5.5	%	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	9.3	%	ASTM D638
Tensile Modulus, 50 mm/min	1010	MPa	ASTM D638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	20	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	790	MPa	ASTM D790
Tensile Stress, yield, 5 mm/min	14	MPa	ISO 527
Tensile Stress, break, 5 mm/min	13	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	6.1	%	ISO 527
Tensile Strain, break, 5 mm/min	9.3	%	ISO 527
Tensile Modulus, 1 mm/min	930	MPa	ISO 527
Flexural Stress	19	MPa	ISO 178
Flexural Modulus, 2 mm/min	870	MPa	ISO 178
IMPACT [1]			
Izod Impact, unnotched, 23°C	981	J/m	ASTM D4812
Izod Impact, notched, 23°C	683	J/m	ASTM D256
Izod Impact, unnotched 80*10*4 +23°C	84	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	31	kJ/m²	ISO 180/1A
THERMAL [1]			
HDT, 0.45 MPa, 3.2 mm, unannealed	79	°C	ASTM D648
HDT, 1.82 MPa, 3.2mm, unannealed	57	°C	ASTM D648

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	80	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	61	°C	ISO 75/Af
PHYSICAL (1)			
Specific Gravity	2.17	-	ASTM D792
Density	2.17	g/cm³	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	0.01	%	ASTM D570
FLAME CHARACTERISTICS			
UL Compliant, 94V-0 Flame Class Rating (2)	1.5	mm	UL 94 by SABIC-IP
INJECTION MOLDING (3)			
Drying Temperature	120 – 150	°C	
Drying Time	4	Hrs	
Melt Temperature	370 – 390	°C	
Front - Zone 3 Temperature	380 – 400	°C	
Middle - Zone 2 Temperature	380 – 400	°C	
Rear - Zone 1 Temperature	360 – 380	°C	
Mold Temperature	200 – 220	°C	
Back pressure (Plastic Pressure)	2.5 – 2.9	MPa	

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) UL rating shown here is based on internal measurements.

(3) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

DISCLAIMER