LNP™ LUBRICOMP™ COMPOUND FP003

FL-4530

DESCRIPTION

LNP *LUBRICOMP* FP003 is a compound based on Polyethylene resin, containing PTFE and Silicone. Added features include: Internally Lubricated.

TYPICAL PROPERTY VALUES

Revision 20191211

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield, 50 mm/min	20	MPa	ISO 527
Tensile Stress, break, 50 mm/min	12	MPa	ISO 527
Tensile Strain, yield, 50 mm/min	9	%	ISO 527
Tensile Strain, break, 50 mm/min	12	%	ISO 527
Tensile Modulus, 1 mm/min	900	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	18	MPa	ISO 178
Flexural Modulus, 2 mm/min	700	MPa	ISO 178
IMPACT			
Izod Impact, unnotched 80*10*4 +23°C	80	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	1.44E-04	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	1.24E-04	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	63	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	47	°C	ISO 75/Af
PHYSICAL			
Mold Shrinkage, flow	3	%	SABIC method
Density	1.02	g/cm³	ISO 1183
INJECTION MOLDING			
Drying Temperature	80	°C	
Drying Time	4	hrs	
Melt Temperature	230	°C	
Front - Zone 3 Temperature	220 – 230	°C	
Middle - Zone 2 Temperature	210 – 220	°C	
Rear - Zone 1 Temperature	195 – 205	°C	
Mold Temperature	40 – 55	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

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