LNP™ LUBRICOMP™ COMPOUND WFI14

WFI14

DESCRIPTION

LNP* Lubricomp* WFI14 is a compound based on Polybutylene Terephalate resin containing Glass Fiber and silicone. Added Features include: internally lubricated.

TYPICAL PROPERTY VALUES

Revision 20191210

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield, 5 mm/min	98	MPa	ISO 527
Tensile Stress, break, 5 mm/min	99	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	4.1	%	ISO 527
Tensile Strain, break, 5 mm/min	4.3	%	ISO 527
Tensile Modulus, 1 mm/min	6700	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	126	MPa	ISO 178
Flexural Stress, break, 2 mm/min	149	MPa	ISO 178
Flexural Strain, break, 2 mm/min	4.3	%	ISO 178
Flexural Modulus, 2 mm/min	5600	MPa	ISO 178
IMPACT			
Izod Impact, unnotched 80*10*4 +23°C	55	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	13	kJ/m²	ISO 180/1A
THERMAL			
CTE, 23°C to 60°C, flow	3.3E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	1.3E-04	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	217	°C	ISO 75/Bf
PHYSICAL			
Mold Shrinkage, flow	0.3 – 0.5	%	SABIC method
Wear Factor Washer	113	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Instr.
Dynamic COF	0.36	-	ASTM D 3702 Modified: Instr.
Static COF	0.73	-	ASTM D 3702 Modified: Instr.
Density	1.43	g/cm³	ISO 1183
Water Absorption, 23°C/24hrs	0.1	%	ISO 62-1
INJECTION MOLDING			
Drying Temperature	120	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.05	%	
Melt Temperature	240 – 265	°C	
Front - Zone 3 Temperature	260 – 270	°C	
Middle - Zone 2 Temperature	245 – 255	°C	
Rear - Zone 1 Temperature	220 – 230	°C	
Mold Temperature	80 – 100	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

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