LNP™ LUBRICOMP™ COMPOUND WX12001J

DESCRIPTION

Lubricomp * WX12001J is an internally lubricated PBT compound with excellent wear and friction properties designed for Healthcare applications.

TYPICAL PROPERTY VALUES

Revision 20191210

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield, 50 mm/min	56	MPa	ISO 527
Tensile Stress, break, 50 mm/min	54	MPa	ISO 527
Tensile Strain, yield, 50 mm/min	10	%	ISO 527
Tensile Strain, break, 50 mm/min	13	%	ISO 527
Tensile Modulus, 1 mm/min	2500	MPa	ISO 527
Flexural Stress	80	MPa	ISO 178
Flexural Modulus, 2 mm/min	2300	MPa	ISO 178
IMPACT			
Izod Impact, unnotched 80*10*4 +23°C	47	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	3	kJ/m²	ISO 180/1A
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	4	kJ/m²	ISO 179/1eA
PHYSICAL			
Wear Factor Washer	111	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Instr.
Dynamic COF	0.31	-	ASTM D 3702 Modified: Instr.
Static COF	0.48	-	ASTM D 3702 Modified: Instr.
Density	1.34	g/cm³	ISO 1183
Moisture Absorption, 50% RH, Equilibrium	0.06	%	ISO 62-4
Melt Volume Rate, MVR at 250°C/2.16 kg	25	cm³/10 min	ISO 1133
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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