LNP™ LUBRICOMP™ COMPOUND OL003A

OL-4030

DESCRIPTION

LNP LUBRICOMP OL003A is a compound based on PPS - Branched resin containing 15% PTFE. Added features of this grade are: Wear Resistant.

TYPICAL PROPERTY VALUES

Revision 20191218

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	21	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	0.6	%	ASTM D 638
Tensile Modulus, 50 mm/min	3590	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	65	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	3870	MPa	ASTM D 790
Tensile Stress, break, 5 mm/min	20	MPa	ISO 527
Tensile Strain, break, 5 mm/min	0.6	%	ISO 527
Tensile Modulus, 1 mm/min	3360	MPa	ISO 527
Flexural Stress	56	MPa	ISO 178
Flexural Modulus, 2 mm/min	3320	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	74	J/m	ASTM D 4812
Izod Impact, notched, 23°C	13	J/m	ASTM D 256
Instrumented Impact Total Energy, 23°C	1	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	4	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	2	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	175	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	108	°C	ASTM D 648
CTE, -30°C to 30°C, flow	6.E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	6.6E-05	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	178	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	109	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.44	-	ASTM D 792
Density	1.43	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.02	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.9 – 2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1 – 3	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.04	%	ISO 62
INJECTION MOLDING			
Drying Temperature	120 – 150	°C	
Drying Time	4	hrs	
Melt Temperature	315 – 320	°C	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Front - Zone 3 Temperature	330 – 345	°C	
Middle - Zone 2 Temperature	320 – 330	°C	
Rear - Zone 1 Temperature	305 – 315	°C	
Mold Temperature	140 – 165	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

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