LNP™ LUBRICOMP™ COMPOUND YL003C

YL-4030 CCS
REGION ASIA

DESCRIPTION

LUBRICOMP* YL003C is a compound based on Polyester Elastomer resin containing 15% PTFE. Added features of this grade include: Clean Compound System, Wear Resistant.

TYPICAL PROPERTY VALUES

Revision 20191125

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	22	MPa	ASTM D 638
Tensile Strain, break	90	%	ASTM D 638
Tensile Modulus, 50 mm/min	280	MPa	ASTM D 638
Flexural Stress	19	MPa	ASTM D 790
Flexural Modulus	290	MPa	ASTM D 790
Hardness, Shore D	56	-	ASTM D 2240
Tensile Strain, break, 50 mm/min	>450	%	ISO 527
Tensile Modulus, 1 mm/min	260	MPa	ISO 527
Flexural Stress	12	MPa	ISO 178
Flexural Modulus	280	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	580	J/m	ASTM D 4812
Izod Impact, notched, 23°C	150	J/m	ASTM D 256
Izod Impact, unnotched 80*10*3 +23°C	48	kJ/m²	ISO 180/1U
Izod Impact, unnotched 80*10*4 +23°C	23	kJ/m²	ISO 180/1U
THERMAL			
HDT, 0.45 MPa, 6.4 mm, unannealed	85	°C	ASTM D 648
HDT, 1.82 MPa, 6.4 mm, unannealed	54	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.1E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	1.8E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	1.1E-04	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	1.8E-04	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	88	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	57	°C	ISO 75/Af
PHYSICAL			
Density	1.27	g/cm³	ASTM D 792
Water Absorption, 23°C/48hrs	0.2	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	1.5 – 1.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1.7 – 1.9	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	1.6	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	1.8	%	ISO 294
Density	1.27	g/cm³	ISO 1183
Water Absorption, (23°C/sat)	0.5	%	ISO 62

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
FLAME CHARACTERISTICS [1]			
UL Yellow Card Link	E207780-103093722	-	-
UL Recognized, 94HB Flame Class Rating	1	mm	UL 94
INJECTION MOLDING			
Drying Temperature	80	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.1	%	
Melt Temperature	215 – 240	°C	
Front - Zone 3 Temperature	225 – 240	°C	
Middle - Zone 2 Temperature	205 – 215	°C	
Rear - Zone 1 Temperature	180 – 195	°C	
Mold Temperature	25 – 55	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

(1) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

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