

## SABIC Innovative Plastics LNP LUBRICOMP Cycoloy\_C6303 PC+ABS

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

### Material Notes:

LNP\* Lubricomp\* Cycoloy\_C6303 compound is a Wear resistant (5% PTFE), flame retardant PC+ABS. High heat and good hydrolytic stability. UL listing from Japan and Pacific.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-CycoloyC6303-PCABS.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-CycoloyC6303-PCABS.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	10 g/10 min	10 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 260 °C	@Load 4.76 lb, Temperature 500 °F	
	50 g/10 min	50 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 260 °C	@Load 11.0 lb, Temperature 500 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	50 mm/min; ISO 527
	51.0 MPa	7400 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	65.0 MPa	9430 psi	50 mm/min; ISO 527
	65.0 MPa	9430 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	100 MPa	14500 psi	5 mm/min; ISO 527
	22 %	22 %	50 mm/min; ISO 527
	30 %	30 %	Type I, 50 mm/min; ASTM D638
	4.5 %	4.5 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	4.6 %	4.6 %	50 mm/min; ISO 527
	6.0 %	6.0 %	5 mm/min; ISO 527
	2.68 GPa	389 ksi	50 mm/min; ASTM D638
Tensile Modulus	2.87 GPa	416 ksi	1 mm/min; ISO 527

Flexural Yield Strength Mechanical Properties	106 MPa Metric	15400 psi English	1.3 mm/min, 50 mm span; ASTM D790 Comments
Flexural Modulus	2.60 GPa	377 ksi	2 mm/min; ISO 178
	2.75 GPa	399 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.960 J/cm	1.80 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	7.00 kJ/m <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Dart Drop, Total Energy	48.0 J @Temperature 23.0 °C	35.4 ft-lb @Temperature 73.4 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	63.0 µm/m-°C	35.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	65.0 µm/m-°C	36.1 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
CTE, linear, Transverse to Flow	63.0 µm/m-°C	35.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	68.0 µm/m-°C	37.8 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
Deflection Temperature at 0.46 MPa (66 psi)	109 °C	228 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	92.0 °C	198 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	102 °C	216 °F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	117 °C	243 °F	Rate B/120; ISO 306
	117 °C	243 °F	Rate B/50; ASTM D1525
UL RTI, Electrical	60.0 °C	140 °F	UL 746B
UL RTI, Mechanical with Impact	60.0 °C	140 °F	UL 746B
UL RTI, Mechanical without Impact	60.0 °C	140 °F	UL 746B

Thermal Properties Flammability, UL 94	Metric	English	Comments
	@Thickness 1.19 mm	@Thickness 0.0469 in	
	V-0	V-0	UL 94
	@Thickness 1.49 mm	@Thickness 0.0587 in	
	5VB	5VB	UL 94
	@Thickness 2.48 mm	@Thickness 0.0976 in	

Electrical Properties	Metric	English	Comments
Hot Wire Ignition, HWI	15 - 30 sec	15 - 30 sec	UL 746A
High Amp Arc Ignition, HAI	60 - 120 arcs	60 - 120 arcs	UL 746A

## Contact Songhan Plastic Technology Co.,Ltd.

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