

SABIC Innovative Plastics LNP LUBRICOMP Cycology_C2801R PC+ABS

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

Material Notes:

LNP* Lubricomp* Cycology_C2801R compound is a 5% PTFE reinforced PC+ABS wear resistant, flame retardant compound for moving components in business equipment. 30% recycle content.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-CycologyC2801R-PCABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	51.0 MPa	7400 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	62.0 MPa	8990 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	110 %	110 %	Type I, 50 mm/min; ASTM D638
Flexural Yield Strength	95.0 MPa	13800 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	2.72 GPa	395 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	1.33 J/cm	2.49 ft-lb/in	ASTM D256
Coefficient of Friction, Dynamic	0.21	0.21	steel; ASTM D1894
Coefficient of Friction, Static	0.16	0.16	steel; ASTM D1894
K (wear) Factor	866 x 10 ⁻⁸ mm ³ /N-M	430 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	PV=2000 psi-fpm vs Self; SABIC Method

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	82.0 °C @Thickness 6.40 mm	180 °F @Thickness 0.252 in	unannealed; ASTM D648
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
Flammability, UL94	V-0 @Thickness 1.49 mm	V-0 @Thickness 0.0587 in	UL 94
	5VB	5VB	

Thermal Properties	Metric @ Thickness 2.48 mm	English @ Thickness 0.0976 in	UL 94 Comments
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Electrical Properties	Metric	English	Comments
Comparative Tracking Index	400 - 600 V	400 - 600 V	UL 746A
Hot Wire Ignition, HWI	15 - 30 sec	15 - 30 sec	UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL 746A

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