

## SABIC Innovative Plastics LNP LUBRICOMP DZL24 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

LNP LUBRICOMP\* DZL24 is a compound based on Polycarbonate resin containing 20% Milled Glass, 10% PTFE. Added features of this material include: Internally Lubricated.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DZL24-PC.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-DZL24-PC.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ASTM D792
Density	1.41 g/cc	0.0509 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.120 %	0.120 %	50% RH, 24 hrs; ASTM D570
	0.130 %	0.130 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	34.0 MPa	4930 psi	5 mm/min; ISO 527
	35.0 MPa	5080 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	36.0 MPa	5220 psi	5 mm/min; ISO 527
	37.0 MPa	5370 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	26.1 %	26.1 %	Type I, 5 mm/min; ASTM D638
	31.2 %	31.2 %	5 mm/min; ISO 527
Elongation at Yield	5.1 %	5.1 %	Type I, 5 mm/min; ASTM D638
	5.1 %	5.1 %	5 mm/min; ISO 527
Tensile Modulus	2.97 GPa	431 ksi	1 mm/min; ISO 527
	3.19 GPa	463 ksi	50 mm/min; ASTM D638
Flexural Strength	65.0 MPa	9430 psi	ISO 178
Flexural Yield Strength	70.0 MPa	10200 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Modulus	2.94 GPa	412 ksi	2 mm/min; ISO 178
	2.98 GPa	432 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.46 J/cm	2.74 ft-lb/in	ASTM D256
Izod Impact, Unnotched	11.5 J/cm	21.5 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	12.0 kJ/m <sup>2</sup>	5.71 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	74.0 kJ/m <sup>2</sup>	35.2 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	24.0 J @Temperature 23.0 Â°C	17.7 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	15.0 J	11.1 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.44	0.44	ASTM D3702 Modified
Coefficient of Friction, Static	0.46	0.46	ASTM D3702 Modified
K (wear) Factor	8.06 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	4.00 x 10 <sup>-10</sup> in <sup>3</sup> - min/ft-lb-hr	Ring; ASTM D3702 Modified
	123 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	61.0 x 10 <sup>-10</sup> in <sup>3</sup> - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	73.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	40.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	74.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	41.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	140 Â°C	284 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	141 Â°C @Thickness 3.20 mm	286 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	126 Â°C	259 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	127 Â°C @Thickness 3.20 mm	261 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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