

## SABIC Innovative Plastics LNP Lubricomp DFL329EF PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

LNP LUBRICOMP\* DFL329EF is a compound based on Polycarbonate resin containing Flame Retardant, Glass Fiber, PTFE. Added features of this material include: Flame Retardant. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-Lubricomp-DFL329EF-PC.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Lubricomp-DFL329EF-PC.php)

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in <sup>3</sup>	ISO 1183
	1.40 g/cc	0.0506 lb/in <sup>3</sup>	ASTM D 792
Moisture Absorption at Equilibrium	0.15 %	0.15 %	23°C / 50% RH; ISO 62
	0.12 % @Time 86400 sec	0.12 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0033 cm/cm	0.0033 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0049 cm/cm	0.0049 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0050 cm/cm	0.0050 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	74.0 MPa	10700 psi	ISO 527
	75.0 MPa	10900 psi	ASTM D 638
Elongation at Break	3.0 %	3.0 %	ASTM D 638
	3.0 %	3.0 %	ISO 527
Tensile Modulus	4.34 GPa	629 ksi	50 mm/min; ASTM D 638
	4.50 GPa	653 ksi	
Flexural Strength	127 MPa	18400 psi	ISO 178
	129 MPa	18700 psi	ASTM D 790

Mechanical Properties	Metric	English	Comments
Flexural Modulus	4.27 GPa	619 ksi	ASTM D 790
	4.60 GPa	667 ksi	ISO 178
Izod Impact, Notched	1.81 J/cm @Temperature 23.0 °C	3.39 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Izod Impact, Unnotched	5.50 J/cm @Temperature 23.0 °C	10.3 ft-lb/in @Temperature 73.4 °F	ASTM D 4812
Izod Impact, Notched (ISO)	9.00 kJ/m <sup>2</sup> @Temperature 23.0 °C	4.28 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	38.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	18.1 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80*10*4; ISO 180/1U
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603
	18.0 J @Temperature 23.0 °C	13.3 ft-lb @Temperature 73.4 °F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	44.8 µm/m-°C	24.9 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	44.8 µm/m-°C	24.9 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	49.8 µm/m-°C	27.7 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	49.9 µm/m-°C	27.7 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 0.46 MPa (66 psi)	146 °C	295 °F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	141 °C	286 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	141 °C	286 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D 648

Thermal Properties	V-0 Metric	V-0 English	Comments
	@Thickness 1.70 mm	@Thickness 0.0669 in	UL94 BIC-IP

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China