

SABIC Innovative Plastics LNP LUBRICOMP DZL34E PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Lubricomp* DZL34E is a compound based on Polycarbonate resin containing 20% Milled Glass, 15% 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-DZL34E-PC.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	ASTM D792
	1.48 g/cc	0.0535 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0076 cm/cm	0.0076 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0069 cm/cm	0.0069 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	33.0 MPa	4790 psi	ASTM D638
	33.0 MPa	4790 psi	ISO 527
Tensile Strength, Yield	33.0 MPa	4790 psi	ASTM D638
	34.0 MPa	4930 psi	ISO 527
Elongation at Break	11.1 %	11.1 %	ISO 527
	15.9 %	15.9 %	ASTM D638
Elongation at Yield	4.9 %	4.9 %	ISO 527
	5.8 %	5.8 %	ASTM D638
Tensile Modulus	3.27 GPa	474 ksi	1 mm/min; ISO 527
	3.44 GPa	499 ksi	50 mm/min; ASTM D638

Flexural Strength Mechanical Properties	63.0 MPa Metric	9140 psi English	ISO 178 Comments
Flexural Modulus	2.75 GPa	399 ksi	ASTM D790
	3.00 GPa	435 ksi	ISO 178
Izod Impact, Notched	0.740 J/cm	1.39 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.94 J/cm	13.0 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	43.0 kJ/m ²	20.5 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	15.0 J	11.1 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	6.00 J	4.43 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.42	0.42	ASTM D3702 Modified
Coefficient of Friction, Static	0.53	0.53	ASTM D3702 Modified
K (wear) Factor	183 x 10 ⁻⁸ mm ³ /N-M	91.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	64.0 Åµm/m-Å°C	35.6 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	64.8 Åµm/m-Å°C	36.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	61.0 Åµm/m-Å°C	33.9 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	61.2 Åµm/m-Å°C	34.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	139 Å°C	282 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	137 Å°C	279 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	129 Å°C	264 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	127 Å°C	261 Å°F	

Thermal Properties

Metric
@ Thickness 3.20 mm

English
@ Thickness 0.126 in

unannealed; ASTM D648
Comments

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