

SABIC Innovative Plastics LNP LUBRICOMP LCL33 PEEK

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK)

Material Notes:

LNP* LUBRICOMP* LCL33 is a compound based on Polyetheretherketone resin containing 15% Carbon Fiber, 15% PTFE. Added features of this material include: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-LCL33-PEEK.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	ASTM D792
	1.43 g/cc	0.0517 lb/in ³	ISO 1183
Moisture Absorption	0.0700 %	0.0700 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	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	179 MPa	26000 psi	ASTM D638
	187 MPa	27100 psi	ISO 527
Elongation at Break	1.6 %	1.6 %	ISO 527
	1.7 %	1.7 %	ASTM D638
Tensile Modulus	14.7 GPa	2130 ksi	1 mm/min; ISO 527
	16.61 GPa	2409 ksi	50 mm/min; ASTM D638
Flexural Strength	262 MPa	38000 psi	ASTM D790
	276 MPa	40000 psi	ISO 178
Flexural Modulus	12.96 GPa	1880 ksi	ASTM D790

Mechanical Properties	14.7 GPa Metric	2130 ksi English	ISO 178 Comments
Izod Impact, Notched	0.640 J/cm	1.20 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.80 J/cm	8.99 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	6.00 kJ/mÂ²	2.86 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	34.0 kJ/mÂ²	16.2 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	9.00 J	6.64 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	9.00 J	6.64 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.35	0.35	ASTM D3702 Modified
Coefficient of Friction, Static	0.28	0.28	ASTM D3702 Modified
K (wear) Factor	26.2 x 10 ⁻⁸ mmÂ³/N-M	13.0 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	23.4 Âµm/m-Â°C	13.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	23.6 Âµm/m-Â°C	13.1 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	41.4 Âµm/m-Â°C	23.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	41.7 Âµm/m-Â°C	23.2 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	>= 240 Â°C	>= 464 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	>= 298 Â°C	>= 568 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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