

## SABIC Innovative Plastics LNP THERMOCOMP KB006 Acetal

Category : Polymer , Thermoplastic , Acetal (POM)

### Material Notes:

LNP\* THERMOCOMP\* KB006 is a compound based on Acetal containing 30% Glass Bead.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-KB006-Acetal.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-KB006-Acetal.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.64 g/cc	1.64 g/cc	ASTM D792
Density	1.64 g/cc	0.0592 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.200 %	0.200 %	50% RH, 24 hrs; ASTM D570
	0.200 %	0.200 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm @Time 86400 sec	>= 0.020 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.010 - 0.040 cm/cm @Time 86400 sec	0.010 - 0.040 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	34.0 MPa	4930 psi	Type I, 5 mm/min; ASTM D638
	37.0 MPa	5370 psi	5 mm/min; ISO 527
Elongation at Break	19.8 %	19.8 %	Type I, 5 mm/min; ASTM D638
	20.4 %	20.4 %	5 mm/min; ISO 527
Flexural Strength	43.0 MPa	6240 psi	1.3 mm/min, 50 mm span; ASTM D790
	65.0 MPa	9430 psi	ISO 178
Flexural Modulus	3.99 GPa	579 ksi	1.3 mm/min, 50 mm span; ASTM D790
	4.32 GPa	627 ksi	2 mm/min; ISO 178
Izod Impact, Unnotched	3.74 J/cm	7.01 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	25.0 kJ/m <sup>2</sup>	11.9 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	83.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	46.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
	@Temperature -30.0 - 30.0 $\text{Å}^\circ\text{C}$	@Temperature -22.0 - 86.0 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	83.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	46.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
	@Temperature -30.0 - 30.0 $\text{Å}^\circ\text{C}$	@Temperature -22.0 - 86.0 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	152 $\text{Å}^\circ\text{C}$	306 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	155 $\text{Å}^\circ\text{C}$	311 $\text{Å}^\circ\text{F}$	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	107 $\text{Å}^\circ\text{C}$	225 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	103 $\text{Å}^\circ\text{C}$	218 $\text{Å}^\circ\text{F}$	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

## 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