

## Asahi Kasei Tenac® LA531 Acetal Homopolymer, High Lubricity (discontinued \*\*)

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Homopolymer, Unreinforced

### Material Notes:

High-lubricity block copolymer with excellent friction and wear characteristics, especially on POM. Applications: Gears, keyboard parts. This product is not a part of the standard product line dated 2003.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Asahi-Kasei-Tenac-LA531-Acetal-Homopolymer-High-Lubricity-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Asahi-Kasei-Tenac-LA531-Acetal-Homopolymer-High-Lubricity-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.30 %	0.30 %	ASTM D570
Linear Mold Shrinkage	0.018 - 0.022 cm/cm	0.018 - 0.022 in/in	Asahi Chemical test
Melt Flow	16 g/10 min	16 g/10 min	melt index; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	78	78	ASTM D785
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Ultimate	56.0 MPa	8120 psi	5 mm/min; parallel to flow; ASTM D638
Elongation at Break	20 %	20 %	5 mm/min; parallel to flow; ASTM D638
Flexural Yield Strength	80.0 MPa	11600 psi	ASTM D790
Flexural Modulus	2.20 GPa	319 ksi	ASTM D790
Izod Impact, Notched	0.590 J/cm	1.11 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	100 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	55.6 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM D696
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	165 $^{\circ}\text{C}$	329 $^{\circ}\text{F}$	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	110 $^{\circ}\text{C}$	230 $^{\circ}\text{F}$	ASTM D648
Flammability, UL94	HB	HB	

Processing Properties	Metric	English	Comments
Processing Temperature	190 - 210 °C	374 - 410 °F	Cylinder temp
Mold Temperature	60.0 - 120 °C	140 - 248 °F	
Drying Temperature	89.0 - 90.0 °C	192 - 194 °F	Drying generally not required. If it is required, drying at 80-90°C for 3-4 hours will suffice.
Dry Time	3 - 4 hour	3 - 4 hour	

## Contact Songhan Plastic Technology Co.,Ltd.

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