

Asahi Kasei Tenac® LT805 Acetal Homopolymer, Low Friction Grade (discontinued **)

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

Material Notes:

Excellent friction and wear on metals. Applications: Keyboard parts, bearings for office machines, gears. 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-LT805-Acetal-Homopolymer-Low-Friction-Grade-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	ASTM D792
Water Absorption	0.20 %	0.20 %	ASTM D570
Linear Mold Shrinkage	0.018 - 0.022 cm/cm	0.018 - 0.022 in/in	Asahi Chemical test
Melt Flow	22 g/10 min	22 g/10 min	melt index; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	92	92	ASTM D785
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Ultimate	64.0 MPa	9280 psi	5 mm/min; parallel to flow; ASTM D638
Elongation at Break	60 %	60 %	5 mm/min; parallel to flow; ASTM D638
Flexural Yield Strength	93.0 MPa	13500 psi	ASTM D790
Flexural Modulus	2.80 GPa	406 ksi	ASTM D790
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256
Coefficient of Friction, Dynamic	0.20	0.20	thrust type on steel, 0.2 MPa and 10 cm/sec
Limiting Pressure Velocity	1.08 MPa-m/sec	30800 psi-ft/min	pressure of 1 MPa
Taber Abrasion, mg/1000 Cycles	13	13	ASTM D1044

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	172 $^{\circ}\text{C}$	342 $^{\circ}\text{F}$	

<small>(56 psi)</small> Thermal Properties	Metric	English	ASTM D648 Comments
Deflection Temperature at 1.8 MPa (264 psi)	125 °C	257 °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.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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