

Asahi Kasei Tenac® FA405 Acetal Homopolymer, Low Friction Grade (discontinued **)

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

Material Notes:

Contains fluoropolymer and lubricant; excellent friction and wear on plastics. Applications: Bearings for printers, cams, 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-FA405-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	9.0 g/10 min	9.0 g/10 min	melt index; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	94	94	ASTM D785
Tensile Strength, Ultimate	63.0 MPa	9140 psi	5 mm/min; parallel to flow; ASTM D638
Elongation at Break	35 %	35 %	5 mm/min; parallel to flow; ASTM D638
Flexural Yield Strength	98.0 MPa	14200 psi	ASTM D790
Flexural Modulus	2.90 GPa	421 ksi	ASTM D790
Izod Impact, Notched	0.590 J/cm	1.11 ft-lb/in	ASTM D256
Taber Abrasion, mg/1000 Cycles	10	10	ASTM D1044

Thermal Properties	Metric	English	Comments
CTE, linear	100 µm/m-°C	55.6 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	170 °C	338 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	136 °C	277 °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	

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