

Asahi Kasei Tenac® 5012 Acetal Homopolymer (discontinued **)

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

Material Notes:

Standard-flow grade, with reduced stiffness and increased elongation through addition of special polymers. Applications: Clips, fasteners, press-fit 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-5012-Acetal-Homopolymer-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
Melt Flow	24 g/10 min	24 g/10 min	melt index; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	85	85	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	2.70 GPa	392 ksi	ASTM D790
Izod Impact, Notched	0.780 J/cm	1.46 ft-lb/in	ASTM D256

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)	172 °C	342 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	130 °C	266 °F	ASTM D648
Flammability, UL94	HB	HB	

Processing Properties	Metric	English	Comments
Processing Temperature	190 - 210 °C	374 - 410 °F	Cylinder temp

Processing Properties	Metric ¹²⁰ °C	English ⁴⁸ °F	Comments
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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