

Tenac™ GA510

Acetal (POM) Homopolymer
Asahi Kasei Chemicals Corporation

Message:

Tenac™ GA510 is an Acetal (POM) Homopolymer product filled with glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of Tenac™ GA510 include engineering/industrial parts and housings.

Characteristics include:

- Flame Rated
- High Stiffness
- High Strength
- Homopolymer
- Medium Viscosity

General Information	
UL YellowCard	E48285-240812
Filler / Reinforcement	Glass Fiber
Features	High Stiffness
	High Strength
	Homopolymer
	Medium Viscosity
Uses	Engineering Parts
	Gears
	Housings

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	17	g/10 min	ISO 1133
Molding Shrinkage			Internal Method
Flow	1.5 to 1.8	%	
Across Flow	1.2 to 1.5	%	
Water Absorption (23°C, 24 hr, 50% RH)	0.20	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	92		
R-Scale	120		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3400	MPa	ISO 527-2
Tensile Stress			
Yield	62.0	MPa	ISO 527-2
--	63.0	MPa	ASTM D638
Tensile Elongation (Break)	15	%	ASTM D638, ISO 527-2

Flexural Modulus			
--	3000	MPa	ASTM D790
--	3200	MPa	ISO 178
Flexural Strength	96.0	MPa	ASTM D790
Taber Abrasion Resistance	18.0	mg	ASTM D1044
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	4.0	kJ/m ²	ISO 179
Notched Izod Impact	33	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	172	°C	ASTM D648
0.45 MPa, Unannealed	165	°C	ISO 75-2/B
1.8 MPa, Unannealed	140	°C	ASTM D648
1.8 MPa, Unannealed	110	°C	ISO 75-2/A
CLTE - Flow	8.0E-5	cm/cm/°C	ASTM D696, ISO 11359-2
Flammability	Nominal Value		Test Method
Flame Rating (0.730 mm)	HB		UL 94

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