

Tenac™ MG210

Acetal (POM) Homopolymer
Asahi Kasei Chemicals Corporation

Message:

Tenac™ MG210 is an Acetal (POM) Homopolymer product. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of Tenac™ MG210 include automotive, engineering/industrial parts, conveyors and housings.

Characteristics include:

- Creep Resistant
- Fatigue Resistant
- Good Dimensional Stability
- Good Toughness
- High Stiffness

General Information	
UL YellowCard	E48285-102393243
Features	Durable
	Fatigue Resistant
	Good Creep Resistance
	Good Dimensional Stability
	Good Toughness
	High Impact Resistance
	High Stiffness
	High Strength
	High Viscosity
	Homopolymer
Uses	Automotive Applications
	Bearings
	Conveyor Parts
	Engineering Parts
	Fasteners
	Gears
	Housings

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.42	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.7	g/10 min	ISO 1133
Molding Shrinkage - Flow	1.8 to 2.2	%	Internal Method
Water Absorption (23°C, 24 hr, 50% RH)	0.20	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	94		

R-Scale	120		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3150	MPa	ISO 527-2
Tensile Stress			
Yield	75.0	MPa	ISO 527-2
--	79.0	MPa	ASTM D638
Tensile Elongation (Break)	40	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	3040	MPa	ASTM D790
--	2900	MPa	ISO 178
Flexural Strength	108	MPa	ASTM D790
Taber Abrasion Resistance	13.0	mg	ASTM D1044
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	10	kJ/m ²	ISO 179
Notched Izod Impact	78	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	167	°C	ISO 75-2/B
1.8 MPa, Unannealed	136	°C	ASTM D648
1.8 MPa, Unannealed	103	°C	ISO 75-2/A
CLTE - Flow	1.0E-4	cm/cm/°C	ASTM D696, ISO 11359-2
Specific Heat	1470	J/kg/°C	
Thermal Conductivity	0.23	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16 to 1.0E+17	ohms	ASTM D257
Volume Resistivity (23°C)	1.0E+15 to 1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	18	kV/mm	ASTM D149
Dielectric Constant (23°C, 1 MHz)	3.80		ASTM D150
Dissipation Factor (23°C, 1 MHz)	7.0E-3		ASTM D150
Arc Resistance	250	sec	ASTM D495

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