

Tenac™ 3013A

Acetal (POM) Homopolymer
Asahi Kasei Chemicals Corporation

Message:

Tenac™ 3013A is an Acetal (POM) Homopolymer product. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of Tenac™ 3013A include automotive, engineering/industrial parts and housings.

Characteristics include:

- Creep Resistant
- Fatigue Resistant
- Good Dimensional Stability
- Good Toughness
- Good UV Resistance

General Information			
Features	Fatigue Resistant		
	Good Creep Resistance		
	Good Dimensional Stability		
	Good Toughness		
	Good UV Resistance		
	Good Weather Resistance		
	High Impact Resistance		
	High Stiffness		
	High Strength		
	High Viscosity		
	Homopolymer		
Uses	Automotive Interior Parts		
	Engineering Parts		
	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)	2.8	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	2900	MPa	ISO 527-2

Tensile Stress			
Yield	69.0	MPa	ISO 527-2
--	72.0	MPa	ASTM D638
Tensile Elongation			
Break	50	%	ASTM D638
Break	45	%	ISO 527-2
Flexural Modulus			
--	2700	MPa	ASTM D790
--	2600	MPa	ISO 178
Flexural Strength	93.0	MPa	ASTM D790
Taber Abrasion Resistance	13.0	mg	ASTM D1044
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	13	kJ/m ²	ISO 179
Notched Izod Impact	120	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	163	°C	ISO 75-2/B
1.8 MPa, Unannealed	136	°C	ASTM D648
1.8 MPa, Unannealed	97.0	°C	ISO 75-2/A
CLTE - Flow	1.0E-4	cm/cm/°C	ASTM D696, ISO 11359-2
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
Arc Resistance	250	sec	ASTM D495

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