

Tenac™ 7054

Acetal (POM) Homopolymer
Asahi Kasei Chemicals Corporation

Message:

Tenac™ 7054 is an Acetal (POM) Homopolymer product. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of Tenac™ 7054 include engineering/industrial parts and housings.

Characteristics include:

- Flame Rated
- Antistatic
- Fast Molding Cycle
- High Flow
- Homopolymer

General Information	
UL YellowCard	E48285-240788
Additive	Antistatic
Features	Antistatic
	Fast Molding Cycle
	High Flow
	Homopolymer
	Low Viscosity
Uses	Low Warpage
	Engineering Parts
	Gears
	General Purpose
	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)	39	g/10 min	ISO 1133
Molding Shrinkage - Flow	1.7 to 2.1	%	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	3400	MPa	ISO 527-2
Tensile Stress			
Yield	74.0	MPa	ISO 527-2
--	75.0	MPa	ASTM D638

Tensile Elongation (Break)	15	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	3250	MPa	ASTM D790
--	3200	MPa	ISO 178
Flexural Strength	113	MPa	ASTM D790
Taber Abrasion Resistance	13.0	mg	ASTM D1044
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	6.0	kJ/m ²	ISO 179
Notched Izod Impact	50	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	136	°C	ASTM D648
1.8 MPa, Unannealed	105	°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
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	HB		
1.50 mm	HB		

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