

Tenac™-C SG454

Acetal (POM) Copolymer
Asahi Kasei Chemicals Corporation

Message:

Tenac™-C SG454 is an Acetal (POM) Copolymer product. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of Tenac™-C SG454 include engineering/industrial parts and housings.

Characteristics include:

- Flame Rated
- Copolymer
- Medium Viscosity

General Information	
UL YellowCard	E48285-240858
Features	Copolymer
	Low Friction
	Medium Viscosity
	Noise Damping
	Soft
Uses	Engineering Parts
	Gears
	Housings

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ISO 1133
Molding Shrinkage - Flow	1.6 to 2.0	%	Internal Method
Water Absorption (23°C, 24 hr, 50% RH)	0.30	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1300	MPa	ISO 527-2
Tensile Stress			
Yield	32.0	MPa	ISO 527-2
--	32.0	MPa	ASTM D638
Tensile Elongation			
Break	90	%	ASTM D638
Break	80	%	ISO 527-2
Flexural Modulus			
--	1250	MPa	ASTM D790
--	1300	MPa	ISO 178
Flexural Strength	51.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength	5.0	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	153	°C	ASTM D648
0.45 MPa, Unannealed	152	°C	ISO 75-2/B
1.8 MPa, Unannealed	74.0	°C	ASTM D648, ISO 75-2/A
CLTE - Flow	1.0E-4	cm/cm/°C	ASTM D696, ISO 11359-2
Flammability	Nominal Value		Test Method
Flame Rating (1.00 mm)	HB		UL 94

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