

TENAC™-C TFC64

Asahi Kasei Corporation - Acetal (POM) Copolymer

General Information

General

Features AKEP website	• Electrically Conductive	
Uses	• Bearings	• Gears
	• Engineering Parts	• Housings
Part Marking Code (ISO11469) (ISO 11469)	• >POM-CD<	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.37	g/cm ³	ASTM D792 ISO 1183
Molding Shrinkage - Flow	1.3 to 1.6	%	Internal Method
Water Absorption (24 hr, 23°C, 50% RH)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2200	MPa	ISO 527-1
Tensile Stress			
Break	35.0	MPa	ISO 527-2
--	33.0	MPa	ASTM D638
Tensile Elongation			
Break	3.0	%	ASTM D638
Break	2.0	%	ISO 527-2
Flexural Modulus			
--	2010	MPa	ASTM D790
--	2100	MPa	ISO 178
Flexural Strength	63.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	1.5	kJ/m ²	ISO 179
Notched Izod Impact	33	J/m	ASTM D256



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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	160	°C	ASTM D648
0.45 MPa, Unannealed	146	°C	ISO 75-2/B
1.8 MPa, Unannealed	123	°C	ASTM D648
1.8 MPa, Unannealed	85.0	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
--	1.0 to 1.0E+2	ohms	ASTM D257
--	1.0 to 10	ohms	JIS K7194 IEC 60093
Volume Resistivity			
--	1.0 to 1.0E+2	ohms·cm	ASTM D257
--	1.0 to 10	ohms·cm	JIS K7194 IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.75 mm)	HB		UL 94

Processing Information			
Injection	Nominal Value	Unit	
Drying Temperature - Hot Air Dryer	80 to 90	°C	
Drying Time - Hot Air Dryer	3.0 to 4.0	hr	
Processing (Melt) Temp	180 to 210	°C	
Mold Temperature	> 60	°C	

Notes

¹ Typical properties: these are not to be construed as specifications.

