

TENAC™-C TFC84

Asahi Kasei Corporation - Acetal (POM) Copolymer

General Information

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

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.38	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ISO 1133
Molding Shrinkage - Flow	1.2 to 1.6	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2700	MPa	ISO 527-1
Tensile Stress (Yield)	35.0	MPa	ISO 527-2
Tensile Strain (Break)	31	%	ISO 527-2
Flexural Modulus	2600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	3.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	145	°C	ISO 75-2/B
1.8 MPa, Unannealed	83.0	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0 to 10	ohms	IEC 60093
Volume Resistivity	1.0 to 10	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.75 mm)	HB		UL 94

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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.