

TENAC™-C TFC77

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	1.41	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	3200	MPa	ISO 527-1
Tensile Stress (Break)	38.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus	3100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.0	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	85.0	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0 to 10	ohms	JIS K7194 IEC 60093
Volume Resistivity	1.0 to 10	ohms·cm	JIS K7194 IEC 60093



TENAC™-C TFC77

Asahi Kasei Corporation - Acetal (POM) Copolymer

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.

