

TENAC™-C EF850

Asahi Kasei Corporation - Acetal (POM) Copolymer

General Information

General		
Additive	• Antistatic	
Features AKEP website	• Electrically Conductive	• Flow, High
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	1.41	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	15	g/10 min	ISO 1133
Molding Shrinkage - Flow	1.4 to 1.8	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3100	MPa	ISO 527-1
Tensile Stress (Break)	46.0	MPa	ISO 527-2
Tensile Strain (Break)	5.0	%	ISO 527-2
Flexural Modulus	3000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	1.5	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	153	°C	ISO 75-2/B
1.8 MPa, Unannealed	95.0	°C	ISO 75-2/A



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Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	10 to 1.0E+2	ohms	JIS K7194 IEC 60093
Volume Resistivity	10 to 1.0E+2	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	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.

