

TENAC™-C EF750

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 / Specific Gravity	1.41	g/cm ³	ASTM D792 ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	10	g/10 min	ISO 1133
Molding Shrinkage - Flow	1.6 to 2.0	%	Internal Method
Water Absorption (24 hr, 23°C, 50% RH)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2600	MPa	ISO 527-1
Tensile Stress			
Break	52.0	MPa	ISO 527-2
--	48.0	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638 ISO 527-2
Flexural Modulus			
--	2450	MPa	ASTM D790
--	2500	MPa	ISO 178
Flexural Strength	78.0	MPa	ASTM D790



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Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	3.0	kJ/m ²	ISO 179
Notched Izod Impact	42	J/m	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	80		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	162	°C	ASTM D648 ISO 75-2/B
1.8 MPa, Unannealed	120	°C	ASTM D648
1.8 MPa, Unannealed	100	°C	ISO 75-2/A
CLTE - Flow			
--	1.0E-4	cm/cm/°C	ASTM D696
--	6.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
--	1.0E+2 to 1.0E+4	ohms	ASTM D257
--	10 to 1.0E+2	ohms	JIS K7194 IEC 60093
Volume Resistivity			
23°C	1.0E+2 to 1.0E+4	ohms·cm	ASTM D257
--	10 to 1.0E+2	ohms·cm	IEC 60093 JIS K7194
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.75 mm	HB		
1.5 mm	HB		

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.

