

TENAC™-C TFC64

Asahi Kasei Corporation - Acetal (POM) Copolymer

General Information
General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Features	• Electrically Conductive
Uses	• Bearings • Gears • Engineering Parts • Housings
Part Marking Code (ISO 11469)	• >POM-CD<

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.37		ASTM D792
Density	1.37	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.013 to 0.016	in/in	Internal Method
Water Absorption (24 hr, 73°F, 50% RH)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	319000	psi	ISO 527-1
Tensile Strength	4790	psi	ASTM D638
Tensile Stress (Break)	5080	psi	ISO 527-2
Tensile Elongation (Break)	3.0	%	ASTM D638
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus	292000	psi	ASTM D790
Flexural Modulus	305000	psi	ISO 178
Flexural Strength	9140	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	0.71	ft·lb/in ²	ISO 179
Notched Izod Impact	0.62	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	320	°F	ASTM D648
Deflection Temperature Under Load (66 psi, Unannealed)	295	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	253	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	185	°F	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
Surface Resistivity	1.0 to 10	ohms	IEC 60093
Volume Resistivity			
--	1.0 to 1.0E+2	ohms·cm	ASTM D257
--	1.0 to 10	ohms·cm	JIS K7194
Volume Resistivity	1.0 to 10	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.030 in)	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature - Hot Air Dryer	176 to 194	°F
Drying Time - Hot Air Dryer	3.0 to 4.0	hr



Processing (Melt) Temp	356 to 410 °F
Mold Temperature	> 140 °F

Notes

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

