

Tenac™-C TFC64

Acetal (POM) Copolymer
Asahi Kasei Chemicals Corporation

Message:

Tenac™-C TFC64 is an Acetal (POM) Copolymer product. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of Tenac™-C TFC64 include engineering/industrial parts and housings.

Characteristics include:

- Flame Rated
- Conductive
- Copolymer
- High Viscosity

General Information	
UL YellowCard	E48285-240868
Features	Copolymer
	Electrically Conductive
	High Viscosity
Uses	Bearings
	Engineering Parts
	Gears
	Housings

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage - Flow	1.3 to 1.6	%	Internal Method
Water Absorption (23°C, 24 hr, 50% RH)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2200	MPa	ISO 527-2
Tensile Stress			
Break	35.0	MPa	ISO 527-2
--	33.0	MPa	ASTM D638
Tensile Elongation			
Break	3.0	%	ASTM D638
Break	2.0	%	ISO 527-2
Flexural Modulus			
--	2010	MPa	ASTM D790
--	2100	MPa	ISO 178
Flexural Strength	63.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	1.5	kJ/m ²	ISO 179
Notched Izod Impact	33	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	160	°C	ASTM D648
0.45 MPa, Unannealed	146	°C	ISO 75-2/B
1.8 MPa, Unannealed	123	°C	ASTM D648
1.8 MPa, Unannealed	85.0	°C	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	IEC 60093
Volume Resistivity			
23°C	1.0 to 1.0E+2	ohms·cm	ASTM D257
--	1.0 to 10	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.750 mm)	HB		UL 94

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