

Tenac™-C CF452

Acetal (POM) Copolymer
Asahi Kasei Chemicals Corporation

Message:

Tenac™-C CF452 is an Acetal (POM) Copolymer product filled with carbon fiber. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of Tenac™-C CF452 include engineering/industrial parts and housings.

Characteristics include:

- Flame Rated
- Conductive
- Copolymer
- High Stiffness
- High Strength

General Information	
UL YellowCard	E48285-522265
Filler / Reinforcement	Carbon Fiber
Features	Copolymer
	Electrically Conductive
	High Stiffness
	High Strength
	Medium Viscosity
Uses	Engineering Parts
	Gears
	Housings

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.43	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ISO 1133
Molding Shrinkage			Internal Method
Flow	0.30 to 0.60	%	
Across Flow	0.80 to 1.2	%	
Water Absorption (23°C, 24 hr, 50% RH)	0.20	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7500	MPa	ISO 527-2
Tensile Stress			
Break	110	MPa	ISO 527-2
--	101	MPa	ASTM D638
Tensile Elongation			
Break	5.0	%	ASTM D638

Break	2.0	%	ISO 527-2
Flexural Modulus	7000	MPa	ASTM D790, ISO 178
Flexural Strength	155	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	4.0	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	162	°C	ASTM D648
0.45 MPa, Unannealed	165	°C	ISO 75-2/B
1.8 MPa, Unannealed	140	°C	ASTM D648
1.8 MPa, Unannealed	161	°C	ISO 75-2/A
CLTE			
Flow	6.0E-5	cm/cm/°C	ASTM D696
Flow	6.0E-5 to 9.0E-5	cm/cm/°C	ISO 11359-2
Transverse	9.0E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating (0.750 mm)	HB		UL 94

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