AsahiKASEI

TENAC™-C GN752

Asahi Kasei Corporation - Acetal (POM) Copolymer

General Information

General			
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight		
Features AKEP website	• Flow, High	• Friction, Low	
Uses	• Engineering Parts	• Gears	• Housings
Part Marking Code (ISO11469) (ISO 11469)	• >POM-GF10<		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.46	g/cm³	ASTM D792 ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	15	g/10 min	ISO 1133
Molding Shrinkage			Internal Method
Flow	0.50 to 0.70	%	
Across Flow	1.6 to 1.8	%	
Water Absorption (24 hr, 23°C, 50% RH)	0.20	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	5000	MPa	ISO 527-1
Tensile Stress (Yield)	85.0	MPa	ISO 527-2
Tensile Elongation (Break)	3.0	%	ISO 527-2
Flexural Modulus	4800	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	6.0	kJ/m²	ISO 179

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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	165	°C	
CLTE			ISO 11359-2
Flow	5.0E-5	cm/cm/°C	
Transverse	1.0E-4	cm/cm/°C	

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 - 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.