

**TENAC™-C GN755**

Asahi Kasei Corporation - Acetal (POM) Copolymer

**General Information**

General	
Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 25% Filler by Weight
Features	• High Flow
Uses	• Engineering Parts • Gears • Housings
Part Marking Code (ISO 11469)	• >POM-GF25<

**Properties <sup>1</sup>**

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.59		ASTM D792
Density	1.59	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ISO 1133
Molding Shrinkage - Flow	4.0E-3 to 6.0E-3	in/in	Internal Method
Molding Shrinkage - Across Flow	0.010 to 0.012	in/in	Internal Method
Water Absorption (24 hr, 73°F, 50% RH)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.16E+6	psi	ISO 527-1
Tensile Strength	17400	psi	ASTM D638
Tensile Stress (Break)	17400	psi	ISO 527-2
Tensile Elongation (Break)	8.0	%	ASTM D638
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus	1.15E+6	psi	ASTM D790
Flexural Modulus	1.09E+6	psi	ISO 178
Flexural Strength	27300	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	3.3	ft·lb/in <sup>2</sup>	ISO 179
Notched Izod Impact	1.3	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	79		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	324	°F	ASTM D648
Deflection Temperature Under Load (66 psi, Unannealed)	329	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	284	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	325	°F	ISO 75-2/A
CLTE - Flow	2.2E-5	in/in/°F	ASTM D696
CLTE - Flow	2.2E-5 to 5.0E-5	in/in/°F	ISO 11359-2
CLTE - Transverse	5.0E-5	in/in/°F	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.030 in		HB	
0.06 in		HB	

**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**

<sup>1</sup> Typical properties: these are not to be construed as specifications.

