

**TENAC™-C ZM413**

Asahi Kasei Corporation - Acetal (POM) Copolymer

**General Information**
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Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Features	• Good Colorability	• Good Weather Resistance	• UV Resistant
	• Good Surface Finish	• Low VOC	
Uses	• Engineering Parts	• Gears	• Housings
Appearance	• Metallized - Colors		
Part Marking Code (ISO 11469)	• >POM<		

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.42		ASTM D792
Density	1.42	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	9.0	g/10 min	ISO 1133
Molding Shrinkage - Flow	0.017 to 0.021	in/in	Internal Method
Water Absorption (24 hr, 73°F, 50% RH)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	348000	psi	ISO 527-1
Tensile Stress (Yield)	8270	psi	ISO 527-2
Nominal Tensile Strain at Break	20	%	ISO 527-2
Flexural Modulus	334000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	1.9	ft·lb/in <sup>2</sup>	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	199	°F	ISO 75-2/A
CLTE - Flow	5.6E-5	in/in/°F	ISO 11359-2

**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.
