TENAC™-C Z4520

Asahi Kasei Corporation - *Acetal (POM) Copolymer*

General Information

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Low VOC		
Uses	• Automotive Applications • Engineering Parts	• Gears • Housings	
Automotive Specifications	• GM GMW22P-POM-C2D	• MERCEDES BENZ DBL 5403.00	• MERCEDES BENZ DBL 5410.00
Part Marking Code (ISO 11469)	• >POM<		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.41		ASTM D792
Density	1.41	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	9.0	g/10 min	ISO 1133
Molding Shrinkage - Flow	0.016 to 0.020	in/in	Internal Method
Water Absorption (24 hr, 73°F, 50% RH)	0.20	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	392000	psi	ISO 527-1
Tensile Strength	9140	psi	ASTM D638
Tensile Stress (Yield)	9140	psi	ISO 527-2
Tensile Strain (Yield)	9.5	%	ISO 527-2
Tensile Elongation (Break)	35	%	ASTM D638
Nominal Tensile Strain at Break	35	%	ISO 527-2
Flexural Modulus	370000	psi	ASTM D790
Flexural Modulus	363000	psi	ISO 178
Flexural Strength	13100	psi	ASTM D790
Taber Abrasion Resistance	14.0	mg	ASTM D1044
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	3.3	ft·lb/in²	ISO 179
Notched Izod Impact	1.4	ft·lb/in	ASTM D256
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness			ASTM D785
M-Scale	80		
R-Scale	115		
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	316	°F	ASTM D648
Deflection Temperature Under Load (66 psi, Unannealed)	313	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	230	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	212	°F	ISO 75-2/A
CLTE - Flow	5.6E-5	in/in/°F	ASTM D696
CLTE - Flow	5.6E-5	in/in/°F	ISO 11359-2
Specific Heat	0.350	Btu/lb/°F	
Thermal Conductivity	1.6	Btu·in/hr/ft²/°F	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+16 to 1.0E+17	ohms	ASTM D257

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Volume Resistivity (73°F)	1.0E+15 to 1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	480	V/mil	ASTM D149
Dielectric Constant (73°F, 1 MHz)	3.90		ASTM D150
Dissipation Factor (73°F, 1 MHz)	8.0E-3		ASTM D150
Arc Resistance	250	sec	ASTM D495
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Formaldehyde Emissions	< 2	ppm	VDA 275

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

[1] Typical properties: these are not to be construed as specifications.

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