Tenac™-C Z3510

Acetal (POM) Copolymer

Asahi Kasei Chemicals Corporation

Message:

Tenac™-C Z3510 is an Acetal (POM) Copolymer product. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of Tenac™-C Z3510 include automotive, engineering/industrial parts and housings.
Characteristics include:
Flame Rated
Copolymer
Creep Resistant
Fatigue Resistant
Good Dimensional Stability

General Information	
Features	Copolymer
	Fatigue Resistant
	Good Creep Resistance
	Good Dimensional Stability
	Good Toughness
	High Impact Resistance
	High Stiffness
	High Strength
	High Viscosity
	Low VOC
Uses	Automotive Applications
	Engineering Parts
	Gears
	Housings

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.8	g/10 min	ISO 1133
Molding Shrinkage - Flow	1.6 to 2.0	%	Internal Method
Water Absorption (23°C, 24 hr, 50% RH)	0.20	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	78		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2500	MPa	ISO 527-2
Tensile Stress			
Yield	62.0	MPa	ISO 527-2
--	62.0	MPa	ASTM D638

Tensile Elongation (Break)	40	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	2450	MPa	ASTM D790
--	2400	MPa	ISO 178
Flexural Strength	88.0	MPa	ASTM D790
Taber Abrasion Resistance	14.0	mg	ASTM D1044
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	9.0	kJ/m^2	ISO 179
Notched Izod Impact	96	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed	158	°C	ASTM D648
0.45 MPa, Unannealed	156	°C	ISO 75-2/B
1.8 MPa, Unannealed	110	°C	ASTM D648
1.8 MPa, Unannealed	95.0	°C	ISO 75-2/A
CLTE - Flow	1.0E-4	cm/cm/°C	ASTM D696, ISO 11359-2
Specific Heat	1470	J/kg/°C	
Thermal Conductivity	0.23	W/m/K	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+16 to 1.0E+17	ohms	ASTM D257
Volume Resistivity (23°C)	1.0E+15 to 1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	19	kV/mm	ASTM D149
Dielectric Constant (23°C, 1 MHz)	3.90		ASTM D150
Dissipation Factor (23°C, 1 MHz)	8.0E-3		ASTM D150
Arc Resistance	250	sec	ASTM D495
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	HB		UL 94

Recommended distributors for this material

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WECHAT