Asahi **KASEI**

Tenac[™]-C 3510

Asahi Kasei Corporation - Acetal (POM) Copolymer

Tuesday, May 31, 2016

	Contra in	lonnation	
General			
Material Status	Commercial: Active		
Augilability	Africa & Middle East	Europe	
Availability	 Asia Pacific 	North America	
	Copolymer	Good Dimensional Stability	High Stiffness
Features	 Creep Resistant 	 Good Toughness 	 High Strength
	 Fatigue Resistant 	 High Impact Resistance 	High Viscosity
Uses	Automotive Applications	Engineering Parts	
	Bearings	Gears	Housings

General Information

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
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/m²	ISO 179
Notched Izod Impact	96	J/m	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	78		ASTM D785
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	

Disclaimer:

Data shown are typical values obtained by proper testing methods and shoud not be used for specification purpose.
 Please use these data for selecting the most appropriate grade suitable for specific usage.

These data may be changed because of improvement in properties.

Be sure to read the relevant SDS before handling and use, and always follow the Important Precautions.
 Do not use plastics in any of the following orally-or medically-related applications.

- Orally-related application : any part, device or component which may come into direct oral contact or into direct contact with drinking foods or beverages.

For drinking water application, please consult Asahi Ksei Chemicals Corporation.

- Medically-related applications : any part, or component which may be used intracorporeally or which may in dialysis or other processes come into direct or indirect contact with body tissue , body fluids , or transfusion fluids.

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Thermal	Nominal Value	Unit	Test Method
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			UL 94
0.810 mm	HB		
1.50 mm	HB		

Notes

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

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