

Tenac™-C 7513

Acetal (POM) Copolymer
Asahi Kasei Chemicals Corporation

Message:

Tenac™-C 7513 is an Acetal (POM) Copolymer product. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of Tenac™-C 7513 include automotive, engineering/industrial parts and housings.

Characteristics include:

- Copolymer
- Good UV Resistance
- Good Weather Resistance
- High Flow
- Low Viscosity

General Information	
Features	Copolymer
	Good UV Resistance
	Good Weather Resistance
	High Flow
	Low Viscosity
Uses	Automotive Interior Parts
	Engineering Parts
	Gears
	Housings

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	30	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			ASTM D785
M-Scale	80		
R-Scale	115		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2750	MPa	ISO 527-2
Tensile Stress			
Yield	64.0	MPa	ISO 527-2
--	64.0	MPa	ASTM D638
Tensile Elongation (Break)	30	%	ASTM D638, ISO 527-2
Flexural Modulus	2600	MPa	ASTM D790, ISO 178
Flexural Strength	93.0	MPa	ASTM D790

Taber Abrasion Resistance	14.0	mg	ASTM D1044
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	5.0	kJ/m ²	ISO 179
Notched Izod Impact	55	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	100	°C	ISO 75-2/A
CLTE - Flow	1.0E-4	cm/cm/°C	ASTM D696, ISO 11359-2
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
Arc Resistance	250	sec	ASTM D495

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