

Tenac™-C 7520

Acetal (POM) Copolymer

Asahi Kasei Chemicals Corporation

Message:

Tenac™-C 7520 is an Acetal (POM) Copolymer product. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of Tenac™-C 7520 include engineering/industrial parts and housings.

Characteristics include:

Flame Rated

Copolymer

High Flow

Low Viscosity

General Information		
UL YellowCard	E48285-240791	E48285-240792
Features	Copolymer High Flow Low Viscosity	
Uses	Engineering Parts Fasteners Gears General Purpose 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	2800	MPa	ISO 527-2
Tensile Stress			
Yield	64.0	MPa	ISO 527-2
--	64.0	MPa	ASTM D638
Tensile Elongation			
Break	32	%	ASTM D638
Break	30	%	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	61	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	157	°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
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			UL 94
0.750 mm	HB		
1.50 mm	HB		

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