

Tenac™-C MT754

Acetal (POM) Copolymer

Asahi Kasei Chemicals Corporation

Message:

Tenac™-C MT754 is an Acetal (POM) Copolymer product filled with mineral. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of Tenac™-C MT754 include engineering/industrial parts and housings.

Characteristics include:

- Flame Rated
- Copolymer
- High Stiffness
- Warp Resistant

General Information	
UL YellowCard	E48285-240854
Filler / Reinforcement	Mineral
Features	Copolymer
	High Stiffness
	Low Warpage
Uses	Engineering Parts
	Gears
	Housings

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.58	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ISO 1133
Molding Shrinkage - Flow	1.0 to 1.2	%	Internal Method
Water Absorption (23°C, 24 hr, 50% RH)	0.20	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	98		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4800	MPa	ISO 527-2
Tensile Stress			
Break	61.0	MPa	ISO 527-2
--	60.0	MPa	ASTM D638
Tensile Elongation			
Break	7.0	%	ASTM D638
Break	5.0	%	ISO 527-2
Flexural Modulus			
--	5000	MPa	ASTM D790
--	4800	MPa	ISO 178

Flexural Strength	108	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	3.0	kJ/m ²	ISO 179
Notched Izod Impact	39	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	163	°C	ASTM D648
0.45 MPa, Unannealed	161	°C	ISO 75-2/B
1.8 MPa, Unannealed	150	°C	ASTM D648
1.8 MPa, Unannealed	131	°C	ISO 75-2/A
CLTE - Flow	6.0E-5	cm/cm/°C	ASTM D696, ISO 11359-2
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.750 mm	HB		
1.50 mm	HB		

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