PolySource

TENAC™-C MT754
Asahi Kasei Corporation - *Acetal (POM) Copolymer*

General Information

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Mineral, 20% Filler by Weight		
Features	• High Flow	• Low Warpage	
Uses	• Engineering Parts	• Gears	• Housings
Part Marking Code (ISO 11469)	• >POM-MD20<		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.58		ASTM D792
Density	1.58	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ISO 1133
Molding Shrinkage - Flow	0.010 to 0.012	in/in	Internal Method
Water Absorption (24 hr, 73°F, 50% RH)	0.20	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	696000	psi	ISO 527-1
Tensile Strength	8700	psi	ASTM D638
Tensile Stress (Break)	8850	psi	ISO 527-2
Tensile Elongation (Break)	7.0	%	ASTM D638
Tensile Strain (Break)	5.0	%	ISO 527-2
Flexural Modulus	725000	psi	ASTM D790
Flexural Modulus	696000	psi	ISO 178
Flexural Strength	15700	psi	ASTM D790

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	1.4	ft·lb/in²	ISO 179
Notched Izod Impact	0.73	ft·lb/in	ASTM D256

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	98		ASTM D785

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	325	°F	ASTM D648
Deflection Temperature Under Load (66 psi, Unannealed)	322	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	302	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	268	°F	ISO 75-2/A
CLTE - Flow	3.3E-5	in/in/°F	ASTM D696
CLTE - Flow	3.3E-5	in/in/°F	ISO 11359-2

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.030 in		HB	
0.06 in		HB	

Processing Information

Injection	Nominal Value	Unit
Drying Temperature - Hot Air Dryer	176 to 194	°F
Drying Time - Hot Air Dryer	3.0 to 4.0	hr
Processing (Melt) Temp	356 to 410	°F
Mold Temperature	> 140	°F