

Tenac™-C 4563

Acetal (POM) Copolymer

Asahi Kasei Chemicals Corporation

Message:

Tenac™-C 4563 is an Acetal (POM) Copolymer product. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of Tenac™-C 4563 include automotive, engineering/industrial parts and housings.

Characteristics include:

Copolymer

Good UV Resistance

Good Weather Resistance

Medium Viscosity

General Information			
Features	Copolymer		
	Good UV Resistance		
	Good Weather Resistance		
	Medium 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)	9.0	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	2500	MPa	ISO 527-2
Tensile Stress			
Yield	61.0	MPa	ISO 527-2
--	62.0	MPa	ASTM D638
Tensile Elongation			
Break	42	%	ASTM D638
Break	35	%	ISO 527-2
Flexural Modulus			

--	2450	MPa	ASTM D790
--	2350	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	6.0	kJ/m ²	ISO 179
Notched Izod Impact	64	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	152	°C	ISO 75-2/B
1.8 MPa, Unannealed	110	°C	ASTM D648
1.8 MPa, Unannealed	91.0	°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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