

TENAC™-C 4513

Asahi Kasei Corporation - Acetal (POM) Copolymer

General Information
General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Features	• Good Weather Resistance • UV Resistant
Uses	• Automotive Interior Parts • Gears • Engineering Parts • Housings
Automotive Specifications	• STELLANTIS B62 0020 • STELLANTIS B62 0300 • STELLANTIS B63 0020
Part Marking Code (ISO 11469)	• >POM<

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.41		ASTM D792
Density	1.41	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	9.0	g/10 min	ISO 1133
Molding Shrinkage - Flow	0.016 to 0.020	in/in	Internal Method
Water Absorption (24 hr, 73°F, 50% RH)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	370000	psi	ISO 527-1
Tensile Strength	8990	psi	ASTM D638
Tensile Stress (Yield)	9140	psi	ISO 527-2
Tensile Elongation (Break)	35	%	ASTM D638
Nominal Tensile Strain at Break	35	%	ISO 527-2
Flexural Modulus	363000	psi	ASTM D790
Flexural Modulus	355000	psi	ISO 178
Flexural Strength	12800	psi	ASTM D790
Taber Abrasion Resistance	14.0	mg	ASTM D1044
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	3.3	ft-lb/in ²	ISO 179
Notched Izod Impact	1.1	ft-lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	80		
R-Scale	115		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	316	°F	ASTM D648
Deflection Temperature Under Load (66 psi, Unannealed)	309	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	230	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	207	°F	ISO 75-2/A
CLTE - Flow	5.6E-5	in/in/°F	ASTM D696
CLTE - Flow	5.6E-5	in/in/°F	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16 to 1.0E+17	ohms	ASTM D257
Volume Resistivity (73°F)	1.0E+15 to 1.0E+16	ohms-cm	ASTM D257
Dielectric Strength	480	V/mil	ASTM D149
Arc Resistance	250	sec	ASTM D495

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

Notes

¹ Typical properties: these are not to be construed as specifications.

