

TENAC™-C HC550

POM

Asahi Kasei

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	13	cm ³ /10min	ISO 1133
Temperature	190	°C	-
Load	2.16	kg	-
Melt flow index, MFI	15	g/10min	ISO 1133

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	2850	MPa	ISO 527
Yield stress	67	MPa	ISO 527
Strain at break	33	%	ISO 527
Flexural modulus, 23°C	2700	MPa	ISO 178
^[C] Charpy notched impact strength, +23°C	6	kJ/m ²	ISO 179/1eA

ASTM Data

Tensile Strength	66	MPa	ASTM D 638
Elongation at Break	33	%	ASTM D 638
Flexural Modulus	2720	MPa	ASTM D 790
Flexural Strength	96	MPa	ASTM D 790
Rockwell Hardness	M 90	-	ASTM D 785
Izod Impact notched, 1/8 in	70	J/m	ASTM D 256

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Temp. of deflection under load, 1.80 MPa	105	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	160	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	100	E-6/K	ISO 11359-1/-2
^[C] Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
^[C] Burning Behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
Yellow Card available	yes	-	-

ASTM Data

UL 94 Flame rating	HB	-	UL 94
DTUL @ 66 psi	163	°C	ASTM D 648
DTUL @ 264 psi	124	°C	ASTM D 648

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	1E17	Ohm	ASTM D 257
Volume Resistivity	1E16	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
^[C] Density	1410	kg/m ³	ISO 1183
Water Absorption, 24hr	0.2	%	ASTM D 570
Density	1410	kg/m ³	ASTM D 792

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80 - 90	°C	-
Pre-drying - Time	3 - 4	h	-
Melt temperature	180 - 210	°C	-
Mold temperature	60	°C	-

Characteristics**Processing**

Injection Molding

Delivery form

Pellets

Features

Copolymer

Regional AvailabilityNorth America, Europe, Asia Pacific, South and Central America,
Near East/Africa