

TENAC™ -C HC350

Asahi Kasei Corporation - Acetal (POM) Copolymer

General Information

General			
Material Status	<ul style="list-style-type: none"> Commercial: Active 		
Availability	<ul style="list-style-type: none"> Africa & Middle East Asia Pacific 	<ul style="list-style-type: none"> Europe Latin America 	<ul style="list-style-type: none"> North America
Features	<ul style="list-style-type: none"> High Viscosity 		
Uses	<ul style="list-style-type: none"> Automotive Applications Engineered Applications 	<ul style="list-style-type: none"> Gears General Purpose 	<ul style="list-style-type: none"> Household Goods
Part Marking Code (ISO 11469)	<ul style="list-style-type: none"> >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)	2.8	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	384000	psi	ISO 527-1
Tensile Strength	9430	psi	ASTM D638
Tensile Stress (Yield)	9570	psi	ISO 527-2
Tensile Elongation (Break)	40	%	ASTM D638
Nominal Tensile Strain at Break	40	%	ISO 527-2
Flexural Modulus	370000	psi	ASTM D790
Flexural Modulus	370000	psi	ISO 178
Flexural Strength	13500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	4.3	ft·lb/in ²	ISO 179
Notched Izod Impact	1.8	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	90		
R-Scale	117		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	325	°F	ASTM D648
Deflection Temperature Under Load (66 psi, Unannealed)	320	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	255	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	216	°F	ISO 75-2/A
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
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.030 in)	HB		UL 94

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.

