

Tenac™-C HC460

Acetal (POM) Copolymer

Asahi Kasei Chemicals Corporation

Message:

Tenac™-C HC460 is an Acetal (POM) Copolymer product. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of Tenac™-C HC460 include engineering/industrial parts, automotive and housings.

Characteristics include:

- Flame Rated
- Copolymer
- Medium Viscosity
- Scratch Resistant
- Wear Resistant

General Information	
UL YellowCard	E48285-240820
Features	Copolymer
	Good Abrasion Resistance
	Medium Viscosity
	Scratch Resistant
Uses	Automotive Applications
	Engineering Parts
	Gears
	General Purpose
	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)	8.0	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	88		
R-Scale	117		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2750	MPa	ISO 527-2
Tensile Stress			
Yield	66.0	MPa	ISO 527-2
--	64.0	MPa	ASTM D638
Tensile Elongation (Break)	40	%	ASTM D638, ISO 527-2
Flexural Modulus	2600	MPa	ASTM D790, ISO 178

Flexural Strength	88.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	7.0	kJ/m ²	ISO 179
Notched Izod Impact	83	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	163	°C	ASTM D648
0.45 MPa, Unannealed	158	°C	ISO 75-2/B
1.8 MPa, Unannealed	124	°C	ASTM D648
1.8 MPa, Unannealed	102	°C	ISO 75-2/A
CLTE - Flow	1.0E-4	cm/cm/°C	ASTM D696, ISO 11359-2
Specific Heat	1470	J/kg/°C	
Thermal Conductivity	0.23	W/m/K	
Flammability	Nominal Value		Test Method
Flame Rating (0.750 mm)	HB		UL 94

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