

【Inquiries】

AsahiKASEI Engineering Plastics Information Comprehensive Site
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AsahiKASEI



TENAC™-C HC350

Asahi Kasei Corporation - Acetal (POM) Copolymer

Wednesday, March 20, 2024

General Information

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features AKEP website	• Viscosity, High		
Uses	• Automotive Applications • Engineered Applications	• Gears • General Purpose	• Household Goods
Part Marking Code (ISO11469) (ISO 11469)	• >POM<		

Other Documentation

Literature	• Moldflow Data • Molding Conditions • SDS • Technical Handbook
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ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.41	g/cm ³	ASTM D792 ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.8	g/10 min	ISO 1133
Molding Shrinkage - Flow	1.6 to 2.0	%	Internal Method
Water Absorption (24 hr, 23°C, 50% RH)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2650	MPa	ISO 527-1
Tensile Stress			
Yield	66.0	MPa	ISO 527-2
--	65.0	MPa	ASTM D638
Tensile Elongation (Break)	40	%	ASTM D638
Nominal Tensile Strain at Break	40	%	ISO 527-2
Flexural Modulus	2550	MPa	ASTM D790 ISO 178
Flexural Strength	93.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	9.0	kJ/m ²	ISO 179
Notched Izod Impact	96	J/m	ASTM D256

Disclaimer:

- Data shown are typical values obtained by proper testing methods and should not be used for specification purpose. Please use these data for selecting the most appropriate grade suitable for specific usage.

These data may be changed because of improvement in properties.

- Be sure to read the relevant SDS before handling and use, and always follow the Important Precautions.

- Do not use plastics in any of the following orally- or medically-related applications.

- Orally-related applications: any part, device or component which may come into direct oral contact or into direct contact with drinking foods or beverages.

For drinking water application, please consult Asahi Kasei Corporation.

- Medically-related applications: any part, device or component which may be used intracorporeally or which may in dialysis or other processes come into direct or indirect contact with body tissue, body fluids or transfusion fluids.

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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			
0.45 MPa, Unannealed	163	°C	ASTM D648
0.45 MPa, Unannealed	160	°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	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
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.75 mm)	HB		UL 94
Processing Information			
Injection	Nominal Value	Unit	
Drying Temperature - Hot Air Dryer	80 to 90	°C	
Drying Time - Hot Air Dryer	3.0 to 4.0	hr	
Processing (Melt) Temp	180 to 210	°C	
Mold Temperature	> 60	°C	

Notes

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

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