

【Inquiries】

AsahiKASEI Engineering Plastics Information Comprehensive Site

URL : <https://www.asahi-kasei-plastics.com/en/contact/>

AsahiKASEI



TENAC™-C 7513

Asahi Kasei Corporation - Acetal (POM) Copolymer

Tuesday, March 19, 2024

General Information

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features AKEP website	• Flow, High	• Weather & UV Resistant	
Uses	• Automotive Interior Parts • Engineering Parts	• Gears • Housings	
Automotive Specifications	• VOLKSWAGEN KTHD 041 Color: Black	• VOLKSWAGEN KTHD0000000J51 Color: Lagune	
Part Marking Code (ISO11469) (ISO 11469)	• >POM<		

Other Documentation

Literature	• Molding Conditions • SDS • Technical Handbook
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ASTM & ISO Properties¹

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)	30	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	2750	MPa	ISO 527-1
Tensile Stress			
Yield	64.0	MPa	ISO 527-2
--	64.0	MPa	ASTM D638
Tensile Elongation (Break)	30	%	ASTM D638
Nominal Tensile Strain at Break	30	%	ISO 527-2
Flexural Modulus	2600	MPa	ASTM D790 ISO 178
Flexural Strength	93.0	MPa	ASTM D790
Taber Abrasion Resistance	14.0	mg	ASTM D1044

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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Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	5.0	kJ/m ²	ISO 179
Notched Izod Impact	55	J/m	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			
0.45 MPa, Unannealed	158	°C	ASTM D648
0.45 MPa, Unannealed	156	°C	ISO 75-2/B
1.8 MPa, Unannealed	110	°C	ASTM D648
1.8 MPa, Unannealed	100	°C	ISO 75-2/A
CLTE - Flow	1.0E-4	cm/cm/°C	ASTM D696 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
Dielectric Strength	19	kV/mm	ASTM D149
Arc Resistance	250	sec	ASTM D495

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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