AsahiKASEI

TENAC™ Z3010

Asahi Kasei Corporation - Acetal (POM) Homopolymer

General Information

General		
Features AKEP website	• Creep Resistant • Fatigue Resistant	• Viscosity, High • VOC, Low
Uses	• Automotive Applications • Engineering Parts	• Gears • Housings
Multi-Point Data	• Isothermal Stress vs. Strain (ISO 11403)	
Part Marking Code (ISO11469) (ISO 11469)	• >POM<	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.4	g/10 min	ISO 1133
Molding Shrinkage - Flow	1.8 to 2.2	%	Internal Method
Water Absorption (24 hr, 23°C, 50% RH)	0.20	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3000	MPa	ISO 527-1
Tensile Stress (Yield)	70.0	MPa	ISO 527-2
Nominal Tensile Strain at Break	50	%	ISO 527-2
Flexural Modulus	2800	MPa	ISO 178
Taber Abrasion Resistance	13.0	mg	ASTM D1044
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	13	kJ/m²	ISO 179
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness			ASTM D785
M-Scale	94		
R-Scale	120		

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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	100	°C	
CLTE - Flow	1.0E-4	cm/cm/°C	ISO 11359-2
Specific Heat	1470	J/kg/°C	
Thermal Conductivity	0.23	W/m/K	
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	18	kV/mm	ASTM D149
Dielectric Constant (23°C, 1 MHz)	3.80		ASTM D150
Dissipation Factor (23°C, 1 MHz)	7.0E-3		ASTM D150
Arc Resistance	250	sec	ASTM D495
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Emission	< 2	ppm	VDA 275

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	190 to 210	°C
Mold Temperature	> 60	°C

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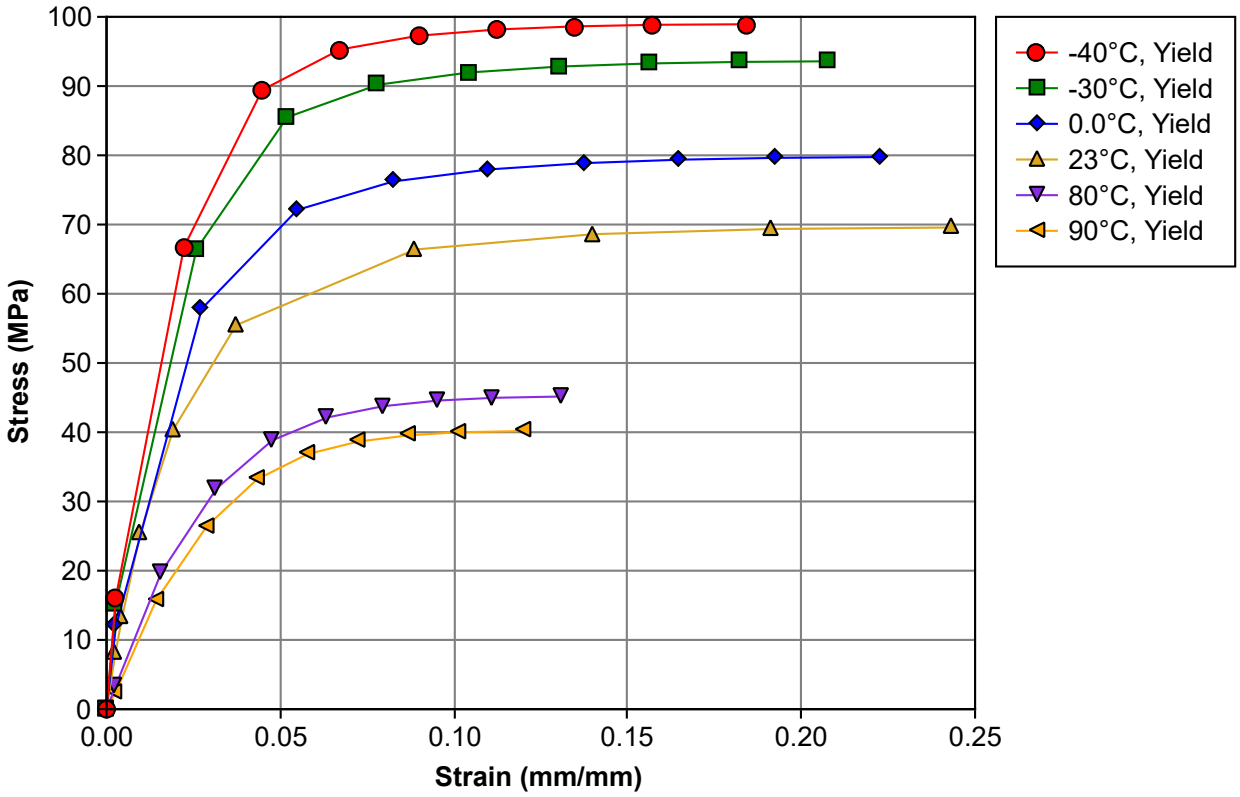
Curve Data

Isothermal Stress vs. Strain (ISO 11403)



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