

Tenac™ LM511

Asahi Kasei Corporation - Acetal (POM) Homopolymer

Tuesday, May 31, 2016

	General I	nformation		
General				
Material Status	Commercial: Active			
Availability	Africa & Middle East	• Europe		
	Asia Pacific	North America		
Additive	Lubricant			
Features	HomopolymerLow Friction	Lubricated Madium Viscosity	 Wear Resistant 	
		Medium Viscosity Gears		- Housings
Uses	 Engineering Parts 	• Gears		Housings
	ASTM & ISC	O Properties ¹		
Physical		Nominal Value	Unit	Test Method
Specific Gravity		1.42	g/cm³	ASTM D792 ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)		22	g/10 min	ISO 1133
Molding Shrinkage - Flow		1.8 to 2.2	%	Internal Method
Water Absorption (23°C, 24 hr, 50% R	RH)	0.20	%	ASTM D570
Mechanical		Nominal Value	Unit	Test Method
Tensile Modulus		3000	MPa	ISO 527-2
Tensile Stress				
Yield		65.0	MPa	ISO 527-2
		65.0	MPa	ASTM D638
Tensile Elongation				
Break		30	%	ASTM D638
Break		25	%	ISO 527-2
Flexural Modulus				
		2900	MPa	ASTM D790
		2800	MPa	ISO 178
Flexural Strength		97.0	MPa	ASTM D790
Impact		Nominal Value	Unit	Test Method
Charpy Notched Impact Strength		7.0	kJ/m²	ISO 179
Notched Izod Impact		63	J/m	ASTM D256
Thermal		Nominal Value	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed		170	°C	ASTM D648
0.45 MPa, Unannealed		160	°C	ISO 75-2/B
1.8 MPa, Unannealed		120	°C	ASTM D648
1.8 MPa, Unannealed		95.0	°C	ISO 75-2/A
CLTE - Flow		1.0E-4	cm/cm/°C	ASTM D696 ISO 11359-2
Flammability		Nominal Value	Unit	Test Method
Flame Rating (0.700 mm)		НВ		UL 94

Disclaimer:

- Data shown are typical values obtained by proper testing methods and shoud 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 application: 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 Ksei Chemicals Corporation.
- Medically-related applications : any part,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.

Tenac™ LM511 Asahi Kasei Corporation - Acetal (POM) Homopolymer

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

Disclaimer:

- Data shown are typical values obtained by proper testing methods and shoud 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 application: 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 Ksei Chemicals Corporation.

 Medically-related applications: any part, 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.