

Tenac™ LM511

Acetal (POM) Homopolymer
Asahi Kasei Chemicals Corporation

Message:

Tenac™ LM511 is an Acetal (POM) Homopolymer product. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of Tenac™ LM511 include engineering/industrial parts and housings.

Characteristics include:

- Flame Rated
- Homopolymer
- Lubricated
- Medium Viscosity
- Wear Resistant

General Information	
Additive	Lubricant
Features	Good Wear Resistance
	Homopolymer
	Low Friction
	Lubricated
	Medium Viscosity
Uses	Engineering Parts
	Gears
	Housings

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.42	g/cm ³	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% 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/m ²	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		Test Method
Flame Rating (0.700 mm)	HB		UL 94

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