

Tenac™ LT802

Acetal (POM) Homopolymer
Asahi Kasei Chemicals Corporation

Message:

Tenac™ LT802 is an Acetal (POM) Homopolymer product. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of Tenac™ LT802 include engineering/industrial parts and housings.

Characteristics include:

- Flame Rated
- Creep Resistant
- High Viscosity
- Homopolymer
- Lubricated

General Information	
UL YellowCard	E48285-240849
Additive	Lubricant
Features	Good Creep Resistance
	Good Wear Resistance
	High Viscosity
	Homopolymer
	Low Friction
	Lubricated

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)	2.5	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

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	92		
R-Scale	120		

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2700	MPa	ISO 527-2
Tensile Stress			
Yield	68.0	MPa	ISO 527-2
--	67.0	MPa	ASTM D638
Tensile Elongation			

Break	55	%	ASTM D638
Break	50	%	ISO 527-2
Flexural Modulus			
--	2560	MPa	ASTM D790
--	2600	MPa	ISO 178
Flexural Strength	91.0	MPa	ASTM D790
Taber Abrasion Resistance	13.0	mg	ASTM D1044
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	13	kJ/m ²	ISO 179
Notched Izod Impact	120	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	172	°C	ASTM D648
0.45 MPa, Unannealed	154	°C	ISO 75-2/B
1.8 MPa, Unannealed	125	°C	ASTM D648
1.8 MPa, Unannealed	90.0	°C	ISO 75-2/A
CLTE - Flow	1.0E-4	cm/cm/°C	ASTM D696, ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	18	kV/mm	ASTM D149
Arc Resistance	250	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.750 mm)	HB		UL 94

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

